



IFA Request for Qualifications

**Environmental Consulting Services for
Remediation of Petroleum Remediation Grant
Brownfield Sites in Indiana**

Prepared for:
Indiana Finance Authority
c/o Indiana Brownfields Program
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November 3, 2006
QEPI Proposal # 06-10-113

This proposal contains information that shall not be discussed outside of the Indiana Finance Authority and the Indiana Brownfields Program and shall not be duplicated, used or disclosed in whole or in part for any purpose other than to evaluate this proposal. The information subject to this restriction is contained in all pages of this proposal document.



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Introduction

Quality Environmental Professionals Inc. (QEPI) is pleased to provide this Proposal and Statement of Qualifications (SOQ) to the Indiana Finance Authority (IFA) for Environmental Consulting Services for the Remediation of Petroleum Remediation Grant Brownfield Sites located in Indiana. This proposal is to identify possible eligible sites, perform limited investigations, remove tanks and piping, evaluate technical information to develop scopes of work for Risk Integrated System of Closure (RISC) approval, coordinate remedial activities with political subdivisions, and conduct necessary technical activities to complete petroleum contamination remediation in accordance with the approved RISC work plans. This submittal has been designed to present the QEPI teams:

- 1) Staff qualifications,
- 2) Understanding of and approach to the successful completion of this project, and
- 3) Cost estimate for this project.

Corporate Summary

QEPI is a woman-owned small business that has been classified by the Indiana Department of Administration as both a Woman Owned Business Enterprise (WBE) and as a Disadvantaged Business Enterprise (DBE). In addition, QEPI has been federally certified as an 8(a) Small Disadvantaged Business. Our headquarters are in Indianapolis, Indiana, where the company was incorporated. We provide a full spectrum of both innovative and traditional engineering, geologic and health and safety services. During our 10-year history, QEPI has established many strong working relationships with municipalities, state and federal government entities, general industry, economic development officials, financial institutions, attorneys, and insurance brokers and providers. We have 28 employees, including engineers, geologists and other scientists with professional experience ranging from 2 years to over 30 years. Our strong technical staff of professionals has an average of 20 years experience and our firm's annual revenue for the last 3 years has averaged approximately \$5 million.

The QEPI team has significant project experience in the following areas: environmental, process, and industrial engineering, National Environmental Policy Act assessments, environmental construction, redevelopment, multimedia assessments, risk assessments and remediation, strategic management and consulting, and permitting and reporting.

QEPI is also a member of the Indiana Association of Cities and Towns (IACT).

QEPI's success in the state of Indiana is highlighted by our inclusion on the Indiana Business Magazine's Growth 100 List in both 1998 and 1999. In addition, QEPI was honored to receive the Senator Richard G. Lugar Community Service Award for our commitment to donating 18 months of senior employee billable time to assist the Indiana Department of Environmental Management (IDEM) with development of its RISC policy. QEPI is also proud of our 2001 Spirit of Philanthropy Award from the Indiana University School of Science and Vendor of the year award in 2004 from a National Petroleum Client.

Technical Superiority and Best Value

QEPI's goal in today's environmental marketplace is to be technically superior and to provide the best possible value to our clients to accomplish all of the project objectives and to surpass our client's expectations. We are confident we can achieve these goals for this project. The QEPI team assembled for this project brings a superior level of experience and knowledge and a proven track record. We are very familiar with IDEM's program needs, processes, procedures, and requirements and will use that knowledge to provide an accurate, timely, thorough and cost effective conclusion to this project.

Project Team and Past Experience

QEPI's proposed project team provides a proven track record of leadership in project implementation and management along with expertise in all relevant project areas. QEPI has been involved with more than 300 petroleum sites in Indiana providing tank removal, investigation, remediation and oversight. In addition we believe we are unique in that we have 5 senior level employees who formerly worked at IDEM including staff that served as section chiefs of the Underground Storage Tank (UST), Leaking Underground Storage Tank (LUST), Brownfield and Site Investigation, State Cleanup and Voluntary Remediation programs. This staff while with IDEM provided oversight management for several hundred sites. QEPI has also provided our expertise in site investigation, risk assessment, remediation and redevelopment of many large industrial properties. Our SOQ presents a sampling of relevant projects demonstrating our exceptional performance in these areas.

Summary

As demonstrated throughout our Proposal and Statement of Work, our past performance and experience verifies our team's capability to perform and illustrates that there is a low degree of risk associated with contractor performance when selecting QEPI for your project.



General Information

QEPI Prime Project Contacts:

Thomas E. O'Leary, CHMM
Technical Project Director
toleary@qepi.com

Karla K. McDonald, CHMM
Redevelopment Director
kmcdonald@qepi.com

QEPI
1611 S. Franklin Rd.
Indianapolis, IN 46239
Phone: 317-351-4255
Fax: 317-351-4265

History of QEPI

QEPI was founded in January of 1996 by Deborah Peters, President and CEO. Our headquarters are in Indianapolis with a second office in South Bend and a third office to be opened by the end of the year in Evansville. QEPI provides a full spectrum of both traditional and innovative geologic, engineering, and health and safety services.

QEPI is a woman-owned small business that has been classified by the Indiana Department of Administration as both a Woman-Owned Business Enterprise (WBE) and as a Disadvantaged Business Enterprise (DBE). We have also been federally certified as an 8(a) Small Disadvantaged Business.

Through the years we have established strong working relationships with municipalities, state and federal government entities, economic development officials, financial institutions, general industry, attorneys, and insurance brokers and providers. Our staff includes geologists, engineers, and other scientists with experience ranging from 2 years to 32 years with a technical staff average of over 20 years experience.

QEPI has significant project experience in petroleum cleanups having worked on over 300 Indiana sites, including facilities owned by Shell Oil, AMOCO, Stanley J. Clark, Boots Brothers, G & G Oil, and Haas Oil, to name a few. We also have significant experience in Brownfield Redevelopment having worked with the cities of Warsaw, Mishawaka, Evansville, Anderson, Tell City and Muncie, among others. In addition QEPI was recently awarded the multimillion dollar Center City Industrial Park Project in Evansville.

QEPI was also instrumental in starting the Indiana Chapter of the National Brownfields Association. Our company president - Deborah Peters, vice president - Karla McDonald and senior staff member - Peggy Dorsey are all on the Indiana Chapter Executive Committee. In addition, Deborah Peters is the Environmental Consulting Chair, Karla McDonald is the Co-chair of the Technical



Committee while Peggy Dorsey is the Chairman of the Events Committee.

Deborah Peters is also the Co-chair for the National Brownfields Association Chapters Task Force. In addition, Karla McDonald is a Board Member of the Southern Indiana Rural Development Project.

QEPI's experience and capability in both the petroleum and brownfields arena makes us a great choice for work under IFA's Petroleum Remediation Grant Initiative. We have worked all over the state and have already developed strong relationships with many communities that we can parlay into work under this program.

QEPI Capability

QEPI is a firm of 28 professionals with an average of 20 years experience. We have also had a South Bend office for 5 years. QEPI staff have performed and/or supervised the various tasks involved in this project on over 300 sites in the state. Financially we are a stable firm having been in the environmental arena for more than 10 years. With multiple staff that were former IDEM employees, we are very familiar with IDEM's program needs, processes, procedures and requirements. We will use this knowledge to provide accurate, timely, thorough and cost-effective service to this project.

QEPI Staff Project Team

Listed below are the staff members who will compose QEPI's team for this project. Their primary responsibilities for this project are included with basic relevant biographical information. Their expanded resumes can be found in Appendix A.

Thom O'Leary, CHMM will serve as the Senior Technical Director for this project. Thom is a former IDEM employee (RCRA Program and Air Compliance) and is currently QEPI's Director of Real Property. He has over 20 years experience and has been with QEPI since it was incorporated. He has been responsible for directing hundreds of investigations and remedial actions during his career. Under Thom's direction, QEPI provided all the tank removal, investigation and closures for IDEM's former ATCAP program.

Karla McDonald, CHMM is another former IDEM staff member who will serve as the Brownfield Redevelopment Director for this project. While at IDEM, Karla worked in the UST and LUST programs as well as Voluntary Remediation and Brownfields programs. She has experience in directing investigation and remediation sites from both the state and consulting sides. She is the Redevelopment Director for QEPI and Vice President of the company. Karla works directory with Mayors, local economic development staff and city planners across the state. She is also a



board member for the Southern Indiana Rural Development Group, which provides economic planning support for rural communities in 33 southern Indiana counties. Karla is a member of the Executive Committee for the Indiana Chapter of the National Brownfields Association as well as the co-chair of the Technical Committee.

Staff assigned to this project also includes **Anne Black** who is QEPI's Government Program Manager and will serve the QEPI team as a technical and program advisor and be responsible for developing the site-specific proposals. Anne, while at IDEM spent 12 years as the Section Chief of Indiana's UST and LUST programs and was responsible for their development. She also initiated a Risk Based Corrective Action (RBCA) program for tanks that was expanded into IDEM's current RISC that applies to all remediations.

Jeremiah Armitage, LPG will be our Principal Geologist and Project Site Manager. He currently is a project manager for several sites which include for remediation; plume stability analysis and monitoring, natural attenuation, chemical injection and risk assessments. He is very familiar with the RISC requirements and has closed several sites using RISC.

Bernard Lauctes, P.E. is our primary engineer and has P.E. certification in 4 states. He has over 20 years of experience in groundwater and soil

remediation engineering, UST management, contaminant hydrogeology, water resources and groundwater modeling. Bernie has designed and installed remediation systems in various media from high permeability sand aquifers to Karst areas to low permeable glacial tills. He has developed testing methods and remediation technologies which are currently being tested by QEPI for potential patents.

Douglas Riggs, E.I.T. will assist Mr. Lauctes with engineering issues. He is a project manager and engineer for QEPI and is currently responsible for eight petroleum remediation sites. He has designed and installed systems for dual phase extraction, air-sparge and soil vapor extraction, multi-phase batch extraction, excavation source removal, and in-situ reduction using HRC and In-situ Reductive Dechlorination.

Mr. Brent Dayharsh will be a Project Site Manager and will assist with geology tasks for this project. Brent is currently directing environmental clean-ups at more than 25 facilities, including petroleum sites. He is a former IDEM employee with several years experience in both the Voluntary Remediation Program (VRP), and the Excess Liability Trust Fund (ELTF) program. While in the VRP Section he was responsible for managing over 50 sites through the processes of the program. While with the ELTF, he was responsible for program technical and payout approvals as well as



Statement of Qualifications

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coordinating with Legal Counsel on appeals to the fund.

Additional staff such as field techs, drafting, administrative and others will be assigned as needed.

QEPI Financial Stability

QEPI has been in business since January of 1996 when it was incorporated. We currently have 30 full time employees. We have a solid base of geologists, engineers and other scientists who have been with the company for many years. QEPI is a woman-owned small business that has been classified by the Indiana Department of Administration as both a Woman-owned Business Enterprise (WBE) and as a Disadvantaged Business Enterprise (DBE). We are also federally certified as an 8(a) Small Disadvantaged Business.

We provide services to various cities, to state and federal government programs as well as commercial and industrial entities. We anticipate that our revenues for 2006 will exceed 4.5 million dollars and are projecting revenues of at least 6 million dollars for 2007.

QEPI is currently a prime contractor for Buckley Air Force Base in Colorado and is partnering with Tetra Tech, Inc., a multimillion-dollar environmental firm to perform services for several other Department of Defense projects.

QEPI has had a banking relationship with JP Morgan Chase Bank for many years and is insured through AIG insurance.



Health and Safety Program

QEPI has a health and safety program that provides the required annual 8-hour update training as well as medical monitoring and annual respirator fit testing. We have approved health and safety trainers within the QEPI staff and also provide this service to other entities. We have developed Health and Safety Plans (HASP) using the Occupational Health and Safety Act (OSHA) standards found in 29 CFR 1910.120.



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QEPI has a schedule to ensure that staff comply with health and safety requirements. QEPI has not had a reportable safety violation or injury within the past 5 years.

Subcontractors

QEPI will use the following subcontractors for this project.

For geoprobe, drilling and monitoring well installation work statewide, QEPI will use one of the following firms, both of which QEPI has a long standing working relationship with:

Midway Services
Mr. Marty Hicks
P.O. Box 2
Knightstown, IN 46148
317-319-2827

Earth Exploration
Mr. Rick Wilcox
7770 West New York Street
Indianapolis, IN 46214
317-273-1690

In northern Indiana only we may also use the following company, with whom we have worked on projects with:

D & T Drilling
Mr. Tom Rutledge
10489 McKinley Hwy.
Osceola, IN 46561
574-675-0930

For tank removal, soil disposal and backfilling, QEPI will use one of the

three following firms, all of whom we have worked with on multiple sites:

Denney Excavating
Mr. Randy Denney
P.O. Box 506
Plainfield, IN 46168
317-718-7150

Focus Contracting, Inc.
Mr. Brian Delaney
1375 Production Dr.
Avon, IN 46123
317-272-6590

Hoosier Equipment
Ms. Heidi Farmer
8014 W. Thompson Rd.
Indianapolis, IN 46241
317-856-2756

For laboratory analysis and quality assurance, QEPI will be using one of the two following firms, both of whom we have consistently worked with over the last several years:

EnVision Laboratories
Mr. Travis Garrett
1439 Sadlier Circle West
Indianapolis, IN 46239
317-351-8632

Pace Analytical
Ms. Kristen Boyce
7726 Moller Rd.
Indianapolis, IN 46268
317-875-5894

***QEPI's Project
Approach and Costs***

QEPI understands that the proposed scope of work for this program consists of providing remediation services for the purpose of addressing petroleum contamination at Indiana brownfield sites. This will include performing the following tasks:

- 1) Identify possible sites eligible for PRG funding.
- 2) Perform limited investigations to determine past practices and location, size and contents of tank(s) and to complete delineation of petroleum contamination.
- 3) Evaluate available technical information to develop and submit scopes of work for approval per IDEM's RISC guidelines.
- 4) Coordinate remediation activities with political subdivisions.
- 5) Conduct all necessary technical activities to complete the petroleum remediation in accordance with the approved RISC work plans, including but not limited to the following:
 - a) project specific HASP
 - b) storage tank removal
 - c) soil/groundwater sampling
 - d) remedial system design/implementation/installation/operation
 - e) project management

- f) confirmatory sampling
- g) interim project reporting
- h) contaminant transport modeling
- i) remedial system maintenance
- j) closure sampling
- k) final project reporting
- l) project invoicing
- m) drum/container removal
- n) other tasks deemed necessary to achieve remedial goals.

Identification of Potential Sites

For identifying potential sites within a selected region, QEPI will use a Project Manager II hourly rate of \$82.00 per hour. We have an active Brownfield marketing program already developed that can be modified to be specific to this program. We understand that IFA will provide educational materials for us to use and will determine the eligibility of identified sites. We understand that a maximum of 5% of the total dollars can go towards this effort and that this marketing is a stand alone effort not to be combined with our other marketing of any community.

Removal of Tanks, Piping, and Dispensers – General

The following costs will apply for removing piping and dispensers and will remain the same for the removal of both a <5000 gallon and a >5000



gallon tank. The cost for removing dispensers will be \$150 each statewide.

The costs for removing piping will be based on a cost per linear foot. For Region 4 the cost will be \$8 per linear foot. For Regions 1, 2, 3, and 5 the costs will be \$11 per linear foot. For Regions 6 and 7 the costs will be \$15 per linear foot.

The cost of an Excavator and Skid Loader will be \$950 per day for Regions 1 through 5 and \$1200 per day for Regions 6 and 7.

Removal of Tanks, Piping, and Dispensers for a UST of < 5000 Gallons

The cost to remove a tank of less than 5000 gallons including cleaning, removal and cutting will be as follows.

- Region 1 - \$1800 each
- Region 2 - \$1800 each
- Region 3 - \$1800 each
- Region 4 - \$1500 each
- Region 5 - \$1800 each
- Region 6 - \$2100 each
- Region 7 - \$2100 each

Removal of Tanks, Piping, and Dispensers for a UST of > 5000 Gallons

The cost to remove a tank of greater than 5000 gallons including cleaning, removing and cutting is as follows.

- Region 1 - \$2400 each
- Region 2 - \$2400 each
- Region 3 - \$2400 each

- Region 4 - \$2100 each
- Region 5 - \$2400 each
- Region 6 - \$2700 each
- Region 7 - \$2700 each

Petroleum Impacted Soil Disposal

The cost for the transportation of petroleum impacted soil is dependent on the region and the distance from the site to the landfill. In addition, there will be landfill costs that are dependent on the concentration and the volume of soil being landfilled. QEPI will use the most cost-effective combination of distance and landfill expense to determine the appropriate landfill to use in the area. The following costs will apply.

For distances of 1 to 20 miles the following trucking cost will apply for each region.

- Region 1 - \$8.75 per ton
- Region 2 - \$8.75 per ton
- Region 3 - \$9.25 per ton
- Region 4 - \$8.75 per ton
- Region 5 - \$9.25 per ton
- Region 6 - \$10.25 per ton
- Region 7 - \$10.25 per ton

For distances of 21 to 40 miles the following trucking rates apply per region.

- Region 1 - \$12.25 per ton
- Region 2 - \$12.25 per ton
- Region 3 - \$12.25 per ton
- Region 4 - \$11.25 per ton
- Region 5 - \$12.25 per ton
- Region 6 - \$16.25 per ton
- Region 7 - \$16.25 per ton

For distances of 41 to 80 miles the following trucking rates apply per region.

- Region 1 - \$15.75 per ton
- Region 2 - \$16.75 per ton
- Region 3 - \$17.75 per ton
- Region 4 - \$16.75 per ton
- Region 5 - \$17.75 per ton
- Region 6 - \$22.25 per ton
- Region 7 - \$22.25 per ton

Petroleum Impacted Tank Contents

The costs for disposing of petroleum impacted tank contents on a statewide basis is \$0.68 per gallon and \$285 per drum for labor and trucking.

Solid Waste Disposal

The following costs will apply for transport and disposal of soil wastes. QEPI will use the closest landfills in the area that can or will accept the specified waste.

Concrete/Asphalt

- Region 1 - \$16.15 per cubic yd
- Region 2 - \$16.15 per cubic yd
- Region 3 - \$18.15 per cubic yd
- Region 4 - \$15.65 per cubic yd
- Region 5 - \$18.15 per cubic yd
- Region 6 - \$22.40 per cubic yd
- Region 7 - \$22.40 per cubic yd

General Refuse

- Region 1 - \$50.50 per ton
- Region 2 - \$50.50 per ton
- Region 3 - \$50.50 per ton
- Region 4 - \$40.00 per ton
- Region 5 - \$50.50 per ton
- Region 6 - \$60.50 per ton
- Region 7 - \$60.50 per ton



Geoprobe Cost

Geoprobe costs statewide will be \$400 per day and \$50 per hour for the operator. For example: the costs for an 8 hour day will be \$800 and for a 10 hour day \$900. This does not include mobilization and travel expenses.

Monitoring Well Installation-General

In addition to the drilling costs listed below the following equipment costs also need to be included. The costs are statewide. Well casing and screen (including riser), filter pack, annular and surface seal costs will be:

- 2 inch well - \$7 per foot
- 4 inch well - \$12 per foot
- 6 inch well - \$22 per foot
- Flush-grade well covers - \$75 per cover



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Decontamination and cleaning will cost \$10 per each 5 foot of boring statewide.

In addition there will be labor costs at \$50 to \$55 per hour for our subcontractors.

Monitoring Well Installation <20 Foot

The cost statewide for installing monitoring wells up to 20 feet deep will be \$26 per foot.

Monitoring Well Installation 20–30 Ft

The cost statewide for installing monitoring wells 20 to 30 feet deep will be \$26 per foot.

Monitoring Well Installation 31–45 Ft

The cost statewide for installing monitoring wells 31 to 45 feet deep will be \$28 per foot.

Monitoring Well Installation 46–60 Ft

The cost statewide for installing monitoring wells 46 to 60 feet deep will be \$30 per foot.

Backfill and Trucking

The costs associated with backfill materials depends on the region and the distance from the supply to the site.

For distances of 1 to 20 miles the following costs will apply.

Region 1 - \$15.00 per ton

Region 2 - \$15.00 per ton

Region 3 - \$19.00 per ton

Region 4 - \$15.00 per ton

Region 5 - \$18.00 per ton

Region 6 - \$22.00 per ton

Region 7 - \$22.00 per ton

For distances of 21 to 40 miles the following costs will apply.

Region 1 - \$18.50 per ton

Region 2 - \$18.50 per ton

Region 3 - \$22.50 per ton

Region 4 - \$18.50 per ton

Region 5 - \$22.50 per ton

Region 6 - \$26.00 per ton

Region 7 - \$26.00 per ton

Laboratory Rates

Attached in Appendix B are the Laboratory Rate Sheets for the two subcontractors that we will use. Because EnVision has given us better rates, we will attempt to use them as much as possible.

Labor Rates

QEPI has attached our Government Rate Sheet, which will apply to this project in Appendix C. The hourly labor rates for our subcontractors for tank removal, excavating, drilling, etc. is \$50 to \$55 per hour.

Equipment Rental List

QEPI has also attached our Equipment Rental and Expendable Supply Charges Rate Sheet, which will apply to this project in Appendix D.



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QEPI understands that all work under this project will be based on submitted site-specific work plans and will be consistent with the PRG payment schedule. These payments will be based on a pay-for-performance model of reimbursement as outlined in Request for Qualifications.

Previous Experience

General Company

QEPI has extensive UST/LUST and Brownfields experience and an excellent rapport with IDEM staff and management. We believe we are in a unique position to assist with the RPG projects. QEPI currently has five former IDEM employees on staff with vast experience in petroleum remediation and brownfields. Four of these staff members will be assigned to work on this project. QEPI strives to provide a cohesive work environment for our quality team of professionals, and seeks to assist our clients by providing a full range of these services

The QEPI team has significant project experience in the following service areas: multimedia assessments and remediation; redevelopment services; strategic management and consulting services; safety training services; permitting, reporting and engineering services; and environmental construction. QEPI takes pride in the fact that we provide quality environmental services at economical prices. QEPI's strong technical staff of professionals has an average of 20

years experience. QEPI's expertise includes but is not limited to the following:

- Redevelopment Services
- Building Inspection Services
- Regulatory Compliance Services
- Environmental Site Assessment Services
- Remediation Services
- Water Quality and Wellhead Protection Services
- Groundwater Management Services
- Geological & Hydrogeological Services
- Risk Management & Assessment Services

• Storage Tank Management
QEPI has vast experience conducting work and receiving project approvals and closures in the following IDEM Programs:

- Brownfields
- Voluntary Remediation Program (VRP)
- Leaking Underground Storage Tanks (LUST)
- Resource Conservation and Recovery Act (RCRA)
- Comprehensive Environmental Response Compensation Liability Act (CERCLA)



Statement of Qualifications

(Continued)

QEPI offers the following to this project:

- Comprehension in technical support and expertise,
- Commitment to each assigned project,
- Competence in every task we complete,
- Knowledge on how to do the project the right way from the start
- Open and candid communication, and
- Continuance to see each project through to a successful completion

Petroleum Specific Experience

QEPI has conducted hundreds of investigations for industrial, commercial and government clients. In fact, QEPI has worked in 89 of Indiana's 92 counties.

Below are listed specific remediation technologies and a few of the sites where we used these technologies.

Technology: Soil Extraction and Disposal

- 1) Lafayette Bulk Plant – Site had free product, high total petroleum hydrocarbons (TPH) in soils and groundwater impacts over ½ acre site. QEPI excavated 6800 tons of soil. Site is now closing under VRP with residential non-default in

soils and industrial default in groundwater.

- 2) Kosciusko REMC – QEPI excavated 650 tons of petroleum impacted soils.
- 3) Soil extraction and disposal is at least part of the remediation of most petroleum sites. QEPI has performed soil excavation at numerous sites through out the state.

Technology: In-situ Soil Vapor Extraction

- 1) SJC, Inc – Kingman has a Soil Vapor Extraction (SVE) system in combination with oxygen enhanced bio-sparging for groundwater. In 5 months of operation QEPI has observed a 90% reduction in petroleum constituents.
- 2) SJC, Inc. – Demotte has a SVE and air sparge system that achieved a No Further Action (NFA) designation in less than 3 years with very high initial concentrations.
- 3) SJC, Inc. – Belleville - QEPI is installing a horizontal SVE well with 105 feet of screen. The full scale system was recently approved. The pilot test removed over 1000 pounds of contaminant.

Technology: Ex-site Soil Treatment

- 1) Indianapolis Airport Authority Sigsbee Site - QEPI oversaw the excavation of over 18,000 cubic yards of



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impacted soil of which 6500 cubic yards is being treated in a bio-cell designed and implemented by QEPI.

- 2) QEPI has implemented small land farm type of treatment cells at other sites.

Technology: Groundwater Extraction and Treatment

- 1) SJC, Inc. – Rochester QEPI has installed a pump and treat system (4 wells) with a dual-phase extraction (DPE) system (3 wells) that has proven to be very successful during the first year.
- 2) SJC, Inc. – Covington has a dual-phase extraction system with 7 wells that has achieved 80-90% contaminant reduction to date.
- 3) SJC, Inc. – Belleville – QEPI's system has 4 wells pumping up to 10,000 gallons per day to contain and cleanup the groundwater while the horizontal SVE system mentioned above cleans up the soil.
- 4) QEPI also has 5 DPE systems at the following G & G Oil facilities: Hoosier Pete #11, University, McGalliard, Gaston Truck Stop and South Side Hoosier Pete. The South Side Hoosier Pete also includes 3 horizontal extraction wells.

Technology: In-situ Air Sparging

- 1) SJC, Inc. – Demotte – Site was also mentioned above. QEPI received closure through an NFA on this site from the initial concentrations of > 1000 parts per billion (ppb) Benzene.
- 2) SJC, Inc. – Trail Tree – As with several other QEPI systems this is a combination air sparging and soil vapor extraction.

Technology: In-situ Biological Treatment

- 1) Boots Brothers – Crawfordsville – QEPI's system is using an oxygen-enhanced bio-sparging system along with source excavation and free product removal. This is a silty clay site but our pilot studies were very successful.
- 2) SJC, Inc. – Kingman was previously mentioned. The original concentrations exceeded 4000 ppb Benzene. After only 5 months the oxygen levels are now 10 times the initial levels.
- 3) SJC, Inc. – Delphi was recently approved for QEPI to replace an atmospheric bio-sparge system with an oxygen enhanced system.



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Technology: In-situ Chemical Oxidation

- 1) Although QEPI has completed some in-situ chemical oxidation, we have at this point not been very successful in using this technology. We feel it has limited application for us.

Technology: Phytoremediation

- 1) QEPI has not used phytoremediation on any petroleum sites at this time.

Technology: Groundwater Containment/Barrier System

- 1) QEPI has not used this technology for petroleum impacted sites.

Technology: Monitored Natural Attenuation (MNA)

- 1) SJC, Inc. – Kentland – QEPI is using MNA to achieve closure for this site. We are still in the monitoring phase but will be using risk analysis for non-default closure.
- 2) SJC, Inc. – Terre Haute – This site is using the same process and in the same stage as the Kentland site.
- 3) SJC, Inc. – Kentland Truck Stop – Again this site is using the same process and is in approximately the same stage as the 2 above sites.

Technology: Free Product Removal

- 1) G & G Hoosier Pete #11, SJC, Inc. Belleville, and Boots Brothers Crawfordsville have all had free product removal as part of their remediation.

Closures: QEPI has had 25-30 closures of petroleum related sites within the last three years. This includes 18-20 Shell Oil sites that received closure during the last year and a half or so that QEPI was Shell's lead consultant in the state of Indiana. We have also received closure for SJC Demotte, SJC Lafayette Bulk Plant (verbal approval from VRP staff), Nora Plaza, City of Indianapolis Pleasant Run, Inergy Kendallville and Waterloo among others

Firm Fixed Price: QEPI is currently working on 2 sites with firm fixed remediation pricing, Cram Industries and Witt Galvanizing. QEPI developed the firm fixed price to aid not only in obtaining site closure but also to assist with property transfers for redevelopment. QEPI is using insurance and bonding mechanisms to aid in the comfort of using this approach. Additionally, we have had several long-term remediation sites where budgets were developed during initial planning stages and when the work was completed we were significantly under the proposed budget. An example would be the Lafayette Bulk Plant where the total cleanup to closure was budgeted for



Statement of Qualifications

(Continued)

\$970,000 and QEPI's total cost through closure will be less than \$600,000.

Listed below are some of the relevant projects for which we have included Project profiles in Appendix E.

Project: SJC, Inc. Auto Truck Plaza

Location: Oakwood, IL

Tasks: Site Investigations, CAP, ORC Injection, Quarterly and Closure Monitoring

Project: Lafayette Bulk Plant (VRP)

Location: Lafayette, Indiana

Tasks: This facility is a VRP project where QEPI investigated and remediated impacts from volatile organic compounds (VOCs) and semivolatile organic compounds (SVOCs) at a former bulk oil facility. This project is nearing closure and will be completed for less than 60% of our original bid.

Project: Nora Plaza Mall (VRP)

Location: Indianapolis, Indiana

Tasks: Phase II Investigation of the groundwater impacted from petroleum products. QEPI also performed an asbestos inspection and asbestos abatement oversight. In addition to monitoring groundwater for VRP closure and a COC and Covenant Not to Sue (CNTS).

Project: Central 13 Redevelopment

Location: Indianapolis, IN

Tasks: UST Removal and Disposal Oversight, Phase II Investigation. A Site Status letter was issued for this site.

Project: Indianapolis Airport Authority

Location: Indianapolis, IN

Tasks: Excavation, Development and Construction of 6,500 cubic yard bio-cell, Electromagnetic Survey, Tier II Risk Assessment

Project: SJC, Indianapolis Airport Authority, Shell Oil, City of Indianapolis

Location: Statewide

Tasks: Preparation of ELTF Reimbursement Applications and Claim Packages

Geographic Coverage

QEPI currently works through out the state on both petroleum and Brownfield sites. QEPI also has an office in South Bend and by the end of the year will be opening an office in Evansville. We are active on sites from South Bend to Evansville and Terre Haute to Richmond. We are interested in working in all the Regions identified by IFA. At IFA's request we have prioritized the Regions in the following order:



Statement of Qualifications

(Continued)

- 1.) Region 5
- 2.) Region 1
- 3.) Region 2
- 4.) Region 6
- 5.) Region 7
- 6.) Region 4
- 7.) Region 3

Client References

QEPI is providing the following references from companies and cities that we have performed various tasks related to petroleum work. Letters of Recommendation from several of these references as well as others are attached in Appendix F.

- Mr. Stanley J. Clark
SJC, Inc.
703 West Park Street
P.O. Box 534
Cayuga, IN 47928
765-492-3345
- Honorable Mayor Ernest Wiggins
City of Warsaw
794 West Center Street
Warsaw, IN 46581
574-372-9595
- Honorable Mayor Jeffery Rea
City Hall
600 East Third Street
Mishawaka, IN 46544
574-258-1601
- Mr. Dale Flannery
G & G Oil Company
220 E. Centennial
Muncie, IN 47303
765-288-7795

- Ms. Ann Kolata
City of South Bend
1200 County City Building
South Bend, IN 46601
574-235-9374
- Mr. Phil Boots
Boots Brothers Oil Company
1204 East Main Street
Crawfordsville, IN 47933
765-362-1504
- Mr. Kevin Haas
Haas Oil Company
P.O. Box 458
Jasper, IN 47547
812-309-0043

Other

QEPI is excited by the opportunity to be involved in the Petroleum Remediation Grant Program. We are confident that we can provide a technically superior and cost effective product for IFA. We have the experience, the staff and the ability to succeed. As a woman-owned small disadvantaged business with staff very experienced in petroleum, brownfields and IDEM, we also satisfy IFA's desire to use qualified, stable woman or minority owned firms. Our staff involvement in the Indiana and National Brownfields Associations is an added bonus for IFA. QEPI has the reputation and the name recognition to open doors in communities that have yet to become involved in your program.



Statement of Qualifications

(Continued)

Disclosure Statement

The contents of this QEPI proposal have been submitted in confidence to the Indiana Finance Authority and therefore represent an intellectual work product of QEPI. QEPI retains exclusive rights to this intellectual property. The recipients shall use this proposal only for evaluation purposes, and ideas contained therein shall not be disclosed to third parties.

Business Terms & Conditions

Quality Environmental Professionals, Inc. is prepared to initiate this Scope of Work upon receipt of your written authorization to proceed. Work will be conducted in accordance with a contract that will be negotiated and signed between QEPI and IFA should we be awarded this project.

Certification

QEPI certifies that to the best of our knowledge, all information provided herein is accurate and complete. QEPI is not a party to any criminal investigation, pending litigation, or regulatory or civil enforcement action. QEPI is unaware of anything that would impair our ability to provide the services requested.

QEPI appreciates the opportunity to submit this proposal and looks forward to providing you with quality environmental services. Please do not hesitate to call if you have any questions.

Sincerely,

Karla K. Mc Donald, CHMM
Vice President,
Director of Redevelopment Services



Professional Profile

THOMAS E. O'LEARY, CHMM
Director of Real Property Services

Academic History:

- Purdue University, West Lafayette, Indiana
BS (Natural Resources & Environmental Science)

Registrations:

- Certified Hazardous Materials Manager, (CHMM) #1770
- Indiana Underground Storage Tank Certification
#UCZ000KY783049
- Indiana Accredited Asbestos Inspector #191813106
- Federal Emergency Management Agency (FEMA)
certified
- Indiana Department of Transportation NEPA Certified
- ISO 14001:2004 E.M.S. Lead Auditor #E052441



Professional Affiliations:

- Indiana Society of Hazardous Materials Managers—Board of Directors 2003-2004
- National Academy of Hazardous Materials Managers

Presentations/Publications:

“Upgrading An Underground Storage Tank System” The Indiana Manufacturer,
December 1998.

“MTBE Future TBA”, IMANET, February 2001.

Professional Experience:

Mr. O'Leary has statutory and regulatory knowledge of RCRA, SARA, UST, VRP, RISC, Brownfield, and other environmental regulations and program areas. Mr. O'Leary has experience in the areas of hazardous waste management, hazardous materials handling and disposal, waste minimization, facility audits and inspections, Phase I and II Environmental Site Assessments, soil, sediment, surface and groundwater sampling, training and education programs, employee right-to-know, storage tank management, Risk Integrated System of Closure (RISC), brownfields redevelopment, Voluntary Remediation Program (VRP) and asbestos management.



Professional Profile

THOMAS E. O'LEARY, CHMM
Director of Real Property Services

Mr. O'Leary has more than twenty years of experience in the environmental field. Mr. O'Leary served as a Project Scientist with an international consulting firm directing and assisting in site assessments, subsurface investigations, air monitoring and regulatory compliance audits.

Mr. O'Leary has experience working on a corporate environmental staff of an international telecommunications company, developing and implementing environmental programs to comply with applicable environmental regulations within a 10-state midwestern area.

Mr. O'Leary worked as an environmental scientist with the Indiana Department of Environmental Management (IDEM) conducting RCRA compliance inspections for hazardous waste generators, transporters and TSDs. He assisted with inspections and permits with the Air Pollution Control Division of the Indiana State Board of Health.

MULTIMEDIA ASSESSMENTS & REMEDIATION

- **Inergy, LLC** **Ohio & Indiana**

Managed various sites in Ohio and Indiana. Developed and implemented risk-based remedial approaches and achieved closure and a Covenant Not to Sue (CNTS) under the IDEM VRP program.

- **Former Chemical Manufacturer** **Terre Haute, Indiana**

Assisted in the investigation of unknown materials in 1,000 drums and a laboratory. Assisted in the activities for lab-packing hazardous materials, removing shock-sensitive materials, and performing a hazard classification on drummed materials. IDEM initiated the investigation as an Emergency Removal.

- **AlliedSignal Aerospace** **Mishawaka, Indiana**

Assisted with sump closures and subsequent subsurface investigation. Performed operation and maintenance activities associated with on-going remedial action. Responsible for quarterly sampling and quarterly reports.

- **Confidential Clients** **Wisconsin, Michigan, Indiana**

Assisted in quarterly groundwater monitoring programs conducted at various landfills in the midwestern states.



Professional Profile

THOMAS E. O'LEARY, CHMM
Director of Real Property Services

- **Former Uniroyal Facility** **Mishawaka, Indiana**

Conducted pre-demolition asbestos survey of the former Uniroyal facility, which consisted of 100+ buildings on 45 acres.

- **Indiana Department of Administration** **Indiana**

NCAA building site, conducted pre-demolition asbestos survey of the IPL Perry Power Plant.

- **Indiana Department of Transportation** **Indiana**

Directed, conducted and assisted with numerous asbestos surveys in various Indiana locations.

- **Confidential Clients** **Indiana, Illinois, Ohio & Michigan**

Conducted various AHERA inspections at schools in Michigan and Indiana. Conducted asbestos surveys as part of numerous Phase I Property Transaction Assessments. Conducted and assisted in asbestos sampling at various industrial and commercial properties in the Midwest.

- **Technicarbon** **Indianapolis, Indiana**

Prepared a Spill Prevention Countermeasure and Contingency Plan.

- **Confidential Clients**

- ✓ Assisted in air toxics emissions testing for a major industrial manufacturer.
- ✓ Assisted in air quality data gathering, air sampling and monitoring.
- ✓ Developed procedures for preparing and submitting SARA Title III Community Right-To-Know reports in compliance with local, state and federal requirements.
- ✓ Conducted RCRA inspections for hazardous waste generators and treatment, storage and disposal facilities.
- ✓ Conducted RCRA hazardous waste training for small quantity generators.



Professional Profile

THOMAS E. O'LEARY, CHMM
Director of Real Property Services

- **Indiana Department of Environmental Management (IDEM)**
Indianapolis, Indiana

Reviewed IDEM underground storage tank closure reports, Corrective Action Plans and Initial Site Characterization reports. Supervised and managed the removal of abandoned USTs at various Indiana sites under the states ATCAP program.

- **Jefferson Smurfit Corporation**
Lafayette, Indiana & Monroe, Michigan

Removed underground storage tanks and assisted in site characterization, installation, operation & maintenance of remediation systems, well installations and groundwater monitoring.

- **Confidential Clients**

Supervised the removal of underground storage tank systems, tank testing, initial site characterization, and prepared tank closure reports and Corrective Action Plans.

Developed and implemented corporate procedures and timetables for replacement and removal of underground storage tanks, based upon Federal & State UST regulations.

- **Shell Oil Products**
Indiana

Conducted UST closures, site assessments, site closure reports, ISC reports, CAP reports, well installations, quarterly groundwater monitoring, and operation and maintenance of remedial systems. Project Manager for 100+ sites in Indiana.

- **SJC, Inc.**
Indiana & Illinois

Project manager for 20 sites in Indiana and Illinois. Coordinated UST closures and site assessments, prepared UST closure reports, Initial Site Characterization reports, and Corrective Action Plans. Developed and implemented groundwater monitoring plans.

- **York Metals Casket**
RCRA Site
Lynn, Indiana

Assisted with a subsurface investigation involving soil and groundwater contaminated with inorganics and solvents.



Professional Profile

THOMAS E. O'LEARY, CHMM
Director of Real Property Services

- **General Electric** **Indianapolis, Indiana**

Assisted with a subsurface investigation involving soil contaminated with Polychlorinated Bi-Phenyls (PCBs).

- **Commonwealth Engineers, Inc.** **Monticello, Indiana**

Evaluated the unconsolidated aquifer and bedrock flow characteristics using an analytic element model for a Hydrogeological Investigation Report. Assisted in the subsurface investigation involving the installation of 40 monitoring wells at four sites.

- **Confidential Clients** **Indiana, Michigan, Iowa, Illinois, Ohio, Georgia**

Conducted numerous environmental property transfer assessments for prospective buyers of commercial and industrial properties.

- **Former Flexil Corporation** **Covington, Indiana**

Conducted a subsurface investigation of the brownfields site to determine the presence or absence of impacts resulting from historic operations.



Professional Profile

KARLA K. McDONALD, CHMM
Director of Redevelopment Services
Office Manager

Academic History:

- Indiana State University, Terre Haute, IN
BS Environmental Health Science

Registrations:

- Certified Hazardous Materials Manager, (CHMM)
Masters Level #12214
- Federal Emergency Management Agency (FEMA)
certified



Professional Training:

- Health and Safety Training for UST Inspectors
- Community Relations in Superfund
- OSHA 40 hour trained
- Air Surveillance for Hazardous Materials
- Design and Performance Monitoring of Groundwater Remediation Systems
- Management of Manufactured Gas Plant Sites
- Remedial Design/Remedial Action Activities for Superfund Sites

Professional Affiliations:

- Member, National Brownfields Association
- Member, National Groundwater Association
- Board Member, Southern Indiana Redevelopment Project

Presentations/Publications:

Brownfields 2005 National Conference, Panel Presentation: "Doing Great in the Neighborhood". Denver, Colorado, November 3, 2005

Indiana Association of Cities and Towns, Workshop Presentation: "Brownfields Redevelopment: Turning Eyesores into Opportunities". Bloomington, Indiana, August 24, 2004.



Professional Profile

KARLA K. McDONALD, CHMM
Director of Redevelopment Services
Office Manager

Indiana Association of Cities and Towns, Annual Conference and Exhibition.
Presentation, "Brownfield Opportunities in Indiana", September 28, 2004.

Midwest Real Estate News, Vol. 19, No. 3, "Don't Judge a Book by its Cover", March 2003

ICLEF Indiana Continuing Legal Education Forum (ICLEF) "Preparing to Purchase or Sell Commercial Property: The Environmental Checklist". Coauthor, June 2003

Moderator & Presenter: International Economic Development Council, Brownfields Redevelopment Workshop. Indianapolis, IN, August 2002.

"Creating Partnerships for Brownfields Redevelopment in Small & Rural Communities" Brownfields 2000 Conference, October 2000, Atlantic City, NJ.

RCRA Corrective Action: New Challenges, New Opportunities, Barnes & Thornburg, May 2000, Indianapolis, Indiana

Manufactures Education Council Environmental Symposium, Brownfield Opportunities in Indiana, March 1999, Cincinnati, Ohio

Water Environment Federation Annual Conference, "Indiana's Voluntary Remediation Program", October 1998, Orlando, Florida.

"Voluntary Remediation Program Promotes Site Redevelopment in Indiana", Indiana Banker, May 1997. K. McDonald and Michael Schutz.

Industrial Site Recycling Conference, "Indiana's Voluntary Remediation Program", April 1997, Pittsburgh, Pennsylvania.

"LUST Voluntary Cleanups", Remediation & Reuse, December 1994, K. McDonald

Professional Experience:

Ms. McDonald has statutory and regulatory knowledge of brownfields redevelopment, voluntary remediation and LUST programs. She has over 20 years of experience in the environmental field, and has worked as a Project Director in the environmental consulting profession and as a Project Manager with the Indiana Department of Environmental Management (IDEM) in the Leaking Underground Storage Tank (LUST), Voluntary Remediation (VRP) and Brownfields programs. Ms. McDonald assisted in the development of the State of Indiana Brownfields Program at IDEM and worked with Indiana Development Finance Authority (IDFA) on the Brownfields Environmental Remediation Revolving Loan Fund that provides grant and loan money to communities to address brownfields sites.

Ms. McDonald has experience in providing technical assistance with investigation and remediation on sites including Brownfields, leaking underground storage tanks and RCRA properties. She has worked with many communities across the country



Professional Profile

KARLA K. McDONALD, CHMM
Director of Redevelopment Services
Office Manager

to identify and evaluate brownfields properties and the options available to put those properties back into productive use. She has also conducted seminars and public meetings on brownfields redevelopment and voluntary remediation programs. Ms. McDonald has been involved in various committees that develop remediation policies for the State of Indiana including the Risk Integrated System of Cleanups (RISC) workgroup and the State of Indiana's Groundwater Task Force.

Governmental Lead Projects

During her tenure at IDEM, Ms. McDonald directed project work or was part of a project team on many LUST, Emergency Response, Removal and CERCLIS sites. The response activities conducted on these sites were when the Potential Responsible Parties could not respond in a timely manner, could not be located or refused to comply.

- **Kiger's Sunoco** **Danville, IN**

Petroleum vapors were entering homes in the vicinity of the station at explosive levels. Activities conducted at the site included installing ventilation systems at the affected homes, removing and disposing of petroleum impacted soil, replacement of the municipal storm sewer in the vicinity of the station, installation of a free product removal system, and installation of two groundwater pump and treat systems.

- **Kiwi Mart** **Cloverdale, IN**

Gasoline was identified flowing out of a spring near the station. Activities conducted at the site included the installation of a underflow dam to collect the product from the spring, installation of an aeration system to treat the surface water at the spring, issuance of a Cease and Desist Order to the PRP to prevent additional product from seeping into the groundwater, installation of monitoring wells on PRP properties, and dye testing of springs in the area to determine if other natural springs could be affected by the release.

- **United Plastics** **Medora, IN**

Removal and disposal of over 200 abandon drums, lead dust and over 200 containers containing various products and wastes from a former plastics facility. Drums and containers were sampled; field hazard categorization testing on samples was conducted, and composite samples were sent for laboratory analysis. The drums were bulked and shipped to a hazardous waste disposal facility



Professional Profile

KARLA K. McDONALD, CHMM
Director of Redevelopment Services
Office Manager

- **Westinghouse Facility** **Union City, IN**

Part of a combined IDEM and USEPA sampling team which conducted soil and sediment sampling for PCBs at properties adjoining the former Westinghouse facility. The sampling event included sampling of the Little Mississinewa River. The data collected was to be used for Federal and state enforcement purposes.

- **Former Truck Repair Facility** **Union City, IN**

Following a emergency response action due to product entering the city sewer system, a removal action was implemented to stop the product from entering the sewer. Oils containing petroleum, solvents and metals were piped from the facility into an inactive cistern located on the property. Once full, the cistern leaked and allowed the product to flow into the sewer. The cistern was removed along with impacted soil. Due to levels of lead in the soil, on-site stabilization was conducted prior to landfill disposal.

REDEVELOPMENT SERVICES

Ms. McDonald has assisted many communities and developers with the task of redeveloping brownfields properties. She is involved with all aspects of the redevelopment process which include identifying funding mechanisms, applying for Federal and state grants and loans, conducting environmental assessments, directing remedial actions, identifying key players, working with developers and obtaining governmental approval. She was involved, with the development of the IDEMs Risk Integrated System of Cleanups policy which when implemented by IDEM will direct the way clean ups and risk assessments are completed. Ms. McDonald has knowledge of CERCLA risk assessment guidance and applying those techniques on specific projects.

- **Former Plating Facility** **Connersville, IN**

Obtained state grants to conduct Phase I and Phase II environmental site assessments while working with the County Industrial Development Corporation. The investigation included determining if impacts from past plating and painting operations were present on the site. Future plans for the property includes entrance into IDEM's Voluntary Remediation Program to assist in returning the property to a useful state.



Professional Profile

KARLA K. McDONALD, CHMM
Director of Redevelopment Services
Office Manager

- **Former Friction Products Manufacturer** **Warsaw, IN**

Initially obtained state grants to conduct a Phase II Investigation and waste characterization activities. QEPI was able to determine that groundwater impacts identified on-site were from off-site sources. QEPI provided oversight of asbestos abatement, partial building demolition and waste product removal. Federal funding from HUD was obtained to complete these activities. The City of Warsaw was given a Comfort Letter from IDEM documenting site closure.

- **Former Coop** **Elnora, IN**

Working with various organizations in Southern Indiana, a state grant was obtained to conduct an initial site characterization to determine if impacts from herbicide and pesticide storage operations were present in the soil and groundwater. Following the completion of the characterization, the property could be listed for sale and redeveloped. The Town of Elnora received a Comfort Letter from IDEM documenting site closure.

- **Former Furniture Manufacturing Facility** **Warsaw, IN**

A state grant was obtained to conduct a Phase II Investigation per the IDEM VRP to aid with a property transaction. The property was used as a furniture manufacture for more than 80 years. Potential concerns included impacts to the soil and groundwater from varnishes, solvents, and metals.

- **Former Electronic Component Manufacture** **Indianapolis, IN**

A state grant was obtained to conduct further site investigation activities of a trichloroethylene plume previously identified at the site. In addition to the grant assistance and environmental activities, QEPI also brought a real estate developer into the project that will be developing the property for a new drug store.

- **Abandoned Fuel Blending Facility** **Greenfield, IN**

As requested by a potential new owner, a state grant was obtained to conduct an investigation prior to the property transaction. Due to the past uses of the property, concerns included solvents, metals, waste oils and PCBs. Close coordination between IDEM's Brownfields and RCRA program was need during this project.



Professional Profile

KARLA K. McDONALD, CHMM
Director of Redevelopment Services
Office Manager

- **Former Service Station** Winamac, IN

A state grant was obtained to conduct an initial site characterization to determine potential impacts from past site operations. Potential concerns at this site included gasoline constituents, waste oils and PCBs.

- **Former Cab Company Service Garage** Indianapolis, IN

Conducted UST removal, Phase I and Phase II Investigations and a limited human health evaluation at the facility. Worked along with the property developer and community development corporation to redevelop the structure for mixed residential and commercial use. Project funded thru both public and private monies. Received site closure through IDEM with a groundwater deed restriction and obtained a Site Status closure letter.

- **Former Bulk Oil Facility** Warsaw, IN

Obtained Brownfield loans to conduct Phase I and Phase II activities on this property that had been historically bulk oil facilities for over 100 years. The Phase II included a geophysical survey to identify potential USTs on the site and other buried waste areas.

- **Residential Parcel Redevelopment** Muncie, IN

Conducted Phase II and limited human health evaluation activities at a former residential parcel to demonstrate that previously identified impacts to the groundwater were from off-site sources and to document that surface soil impacts were acceptable for residential habitation.

MULTIMEDIA ASSESSMENTS & REMEDIATION SERVICES

Ms. McDonald has almost 17 years of project management experience on remediation projects. Ms. McDonald also has experience in conducting emergency remedial actions. Her knowledge of regulatory programs such as RCRA, CERCLA, LUST and Voluntary Remediation ensures that the remedial systems lead to closure of the site.

- **Fiberglass Products Manufacturer** Huntingburg, IN

Provided project direction and regulatory guidance following a fire at the facility. Water used during fire fighting efforts migrated to a nearby ditch causing concerns that possible chemical stored in the building may also migrate to the ditch. This



Professional Profile

KARLA K. McDONALD, CHMM
Director of Redevelopment Services
Office Manager

ditch eventually flows into the Patoka River. Ms. McDonald worked with IDEM staff to treat and discharge the collected surface water, approximately 150,000 gallons, and to make sure that the requirements of the Indiana Spill Rule were being met.

- **Westinghouse Facility** **Union City, IN**

Lead a QEPI project team to conducted sampling of drainage ditches on the site property for PCBs. This project was conducted for IDEM/Site Investigation Program. The sampling event was conducted to gather enforcement data for IDEM.

- **Former Paint Manufacturer** **Indianapolis, IN**

Lead Phase II Investigation activities under the IDEM's VRP at the site. The investigation included determining potential impacts from volatile organic compounds in the soil and groundwater. These activities also aided in the evaluation of possible remedial alternatives for both soil and groundwater.

INDUSTRIAL HYGIENE & SAFETY SERVICES

Ms. McDonald has been a trainer of OSHA health & safety programs for over 10 years. She has instructed courses on hazardous waste site entry, personal protective equipment, air monitoring equipment, and environmental sampling. While at IDEM, Ms. McDonald was a member of their Health and Safety Committee, which provided in house health & safety training for staff.



Professional Profile

ANNE DETJEN BLACK
Government Program Manager

Academic History:

- Randolph – Macon Women's College, Lynchburg, VA – Mathematics Major
- Marshall University, Huntington, WV – Geology Major
- Indiana University, Bloomington, IN - Bachelors Degree Geology
- Indiana University Purdue University Indianapolis – completed graduate courses through School of Public and Environmental Affairs, School of Law and School of Education – no degrees issued



Professional Affiliations:

- ASTSWMO National UST/LUST Task Force 1987 – 1998 and 2002 - 2005

Professional Awards:

- IDEM Commissioner's Award - for Outstanding Efforts and Contributions to the Department
- IDEM Commissioner's Special Commendation Award
- IDEM Environmental Impact Awards (4 years) for development of the following:
 - ✓ UST/LUST Branch Guidance Manual
 - ✓ Voluntary Remediation Program (VRP)
 - ✓ Civil Penalty Matrix and Guidance Document for Tank Enforcement
 - ✓ RISC Program
- IDEM Exceptional Performance Award - for Contributions to the National Environmental Performance Partnership
- U.S. EPA Certificate of Appreciation – for significant contributions in the leadership and development of Indiana's LUST Program
- ASTSWMO Special Commendation Award - for Service and Contributions to the National UST/LUST Task Force

Professional Training and Conferences:

- Hazwoper 40 hour Health and Safety Training – June 1987
Annual 8 hour updates 1988 – current



Professional Profile

ANNE DETJEN BLACK
Government Program Manager

- Hazwoper Health and Safety Decision Making for Managers
- Health and Safety Training for UST Inspectors
- Confined Space Entry Training
- Design and Performance Monitoring of Groundwater Remediation Systems
- Community Relations in Superfund
- EPA Risk Assessment Guidance
- ASTM Risk Based Corrective Action Training – Modules I and II
- Health Risk Communications for Environmental Health Professionals
- Midwestern States Risk Assessment Symposiums – July 2002 and August 2004
- EQC Workshop - How to Approach the Risk Assessment Process
- National UST/LUST EPA and States Conference – Annually 1987 - 1998
- Treatment Technologies for Petroleum Products
- Evaluating Alternative Cleanup Technologies for Tanks
- Air and Waste Management Association Conference on Accelerating UST Corrective Action
- Petroleum Hydrocarbons and Organic Chemicals in Groundwater – Prevention, Detection and Restoration Conference
- Bioremediation – The State of Practice in Hazardous Waste Remediation Operations – Live Satellite Seminar
- EPA PREscore Training Course
- Economic Growth Through Environmental Quality – Brownfield Redevelopment in Indiana – Baker and Daniels, IDEM, and the Department of Commerce
- Indiana Statewide Brownfield Conference
- Women Leaders in State Government Conference
- EPA Presentation Skills Seminar
- Conflict Resolution – Negotiating and Mediating Environmental Disputes
- Total Quality Management
- 7 Habits of Highly Effective People Training Seminar
- Getting to Synergy
- Covey Leadership Training
- Managing Transitions – Making the Most of Change



Professional Profile

ANNE DETJEN BLACK
Government Program Manager

- How to Supervise People
- Management Problems of the Technical Person in a Leadership Role
- Supervisor Training on Communicating with Alcoholic and/or Drug Addicted Employees
- Interviewing and Interrogation Techniques
- Responding to Community Outrage –Strategies for Effective Risk Communication
- Cooperative Communications

Presentations and Publications:

National UST/LUST EPA and States Annual Conferences – 2 time topic co-chair and 3 time presenter on various LUST issues

ICLEF - Indiana Continuing Legal Education Forum – (2 topics) “Management of Underground Storage Tanks in Indiana” and “Compliance and Indiana’s LUST Remediation Process”

IDEM Brownfield Statewide Workshops:

“Breaking Through Barriers to Reusing Brownfield”

“From Old to New – Recycling Brownfield”

IDEM VRP (Voluntary Remediation Program) Implementation Workshops

UST/LUST Guidance Manual Implementation Seminars – 2 years

EPA and IDEM Implementation of Federal UST Rules – 3 presentations in State

Indiana Petroleum Marketers and Convenience Store Operators Association – 2 time presenter and panelist at annual meeting

Indiana Petroleum Equipment Contractors Association

Speaker on UST/LUST issues at many meetings and conferences, following is a list of some of the events:

Indiana School Superintendents Annual Meeting

Indiana School Bus Operators Annual Meeting

Indiana Golf Course Superintendents Annual Conference

Indiana Cemetery Caretakers Association

Indiana Rental Dealers Association

Indiana Association of Auctioneers

IN Department of Corrections Annual Safety Conference

INDOT District Supervisors Training Conference – 3 times

INDOT Statewide Safety Training Conference – 2 times



Professional Profile

ANNE DETJEN BLACK
Government Program Manager

Professional Experience:

Ms. Black retired from a state government environmental regulatory career where she served three different agencies in several capacities over a period spanning almost thirty-one years.

- Indiana State Board of Health Water Pollution Division

The first agency Ms. Black worked for was the Indiana State Board of Health where she concentrated on water pollution control issues. During her tenure there she worked on a team that issued Indiana's first NPDES permits. She, as well, spent time working in the enforcement section where Indiana's environmental enforcement strategies for working within federal programs were first developed. She also volunteered as an Emergency Responder, being on call for night and weekend response for spills and releases throughout the state. In addition she developed and managed Indiana's Deep Well Injection Program. She was responsible for developing criteria for coal, and sand and gravel mining NPDES permits that allowed the mining industry to move and abandon settlement ponds as mining progressed from one area to another.

- Indiana Department of Natural Resources Reclamation Division

Ms. Black also worked for the Indiana Department of Natural Resources in the Mining Reclamation Program. Her initial focus with this agency was to be instrumental in developing the state's coal mining program in compliance with the federal requirements to insure state program approval and additional federal grant dollars for Indiana's program. This entailed working with other state agencies to put cooperative agreements in place as well as assisting with writing rules, regulations and guidance and developing an application package that included minimum requirements for geologic and hydrologic investigation. Ms. Black, along with a federal Office of Surface Mining geologist, developed the national pilot program for the Small Operator's Assistance Program (SOAP). Ms. Black then served as Director of Indiana's SOAP program assisting small coal mine operators with meeting the technical requirements of obtaining a mining permit. She hired and managed consultants who performed geologic and hydrologic investigations of areas to be mined and then put together the permit application for the small operators. In addition Ms. Black was responsible for developing rules, regulations, guidance and the application package for Sand and Gravel Mining Permits in the state. Unfortunately after her work was completed and she left the department, the state legislature repealed the statute setting this program up.



Professional Profile

ANNE DETJEN BLACK
Government Program Manager

- **Indiana Department of Environmental Management
Office of Environmental Response and Office of Land Quality**

Ms. Black spent the last 19 years of her regulatory career with the Indiana Department of Environmental Management beginning in the Office of Environmental Response, which was later merged with the Office of Solid and Hazardous Waste Management to Create the Office of Land Quality.

UST/LUST – Ms. Black was originally promoted in from DNR to develop Indiana's Underground Storage Tank (UST) Program. She continued development of the tank program by adding the Leaking Underground Storage Tank (LUST) Program and Excess Liability Trust Fund (ELTF). During this time the staff grew from 3 to almost 30 employees and the EPA grants and state fees funding the programs grew into 10's of millions of dollars of annual revenue and budget. Ms. Black received numerous awards from both state and federal agencies, for innovative approaches to dealing with the increasing workload, staffing and funding. As part of this new program development she established the field protocols for working on petroleum cleanups in the state. She regularly spent time with her staff in the field, training and evaluating field techniques. She and her staff organized and presented several half day and all day training workshops on tank rules and regulations and again on the program's guidance manual. She, along with her staff developed a risk based corrective action (RBCA) program for tank cleanups in Indiana and then was instrumental in expanding this into the RISC program that is now in place for all cleanups, including LUST, pursued through IDEM's Office of Land Quality.

State Cleanup - During her career at IDEM, Ms. Black also served as the supervisor of the State Cleanup Program. This section was responsible for negotiating Agreed Orders and then overseeing sites that were listed on the Indiana Commissioner's Bulletin. This section also was responsible for overseeing all petroleum sites that did not fall under the LUST program. This included review of plans and inspections for Spill Prevention Control and Countermeasures and Facility Response Plans (SPCC/RFP), especially once a facility had experienced a release. During her stint as head of this Section, she also developed the Remedial Response Program to oversee further site investigation and cleanup of emergency response sites and of non-LUST petroleum sites. She also changed the scoring/rescoring methods and the protocols for the Commissioner's Bulletin.

Brownfield/Site Assessment - The Brownfield Program put together a series of Brownfield workshops and the first Annual Statewide Brownfield Conference while under her leadership. They also started the development of the PEROGIE program in cooperation with the Indiana Development Finance Authority of the Indiana



Professional Profile

ANNE DETJEN BLACK
Government Program Manager

Department of Commerce. The Site Assessment Program was responsible for performing site assessments and scoring sites for inclusion on the National Priorities List (NPL). Sites that did not score high enough for the NPL but needed a priority cleanup were scored for the Indiana Commissioner's Bulletin. Ms. Black worked with staff in the field during the site assessment work and public meetings as well as assisting with the office work associated with the documentation and scoring of sites for the 2 lists.

Remediation Branch - The last few years of Ms. Black's tenure at IDEM was spent as the Senior Technical Advisor for the Remediation Branch, a position she helped create. This branch includes the LUST, VRP, State Cleanup, Brownfield, Site Assessment, Superfund and Defense programs. In this capacity, she was responsible for policy development, rules and regulations, troubleshooting and dealing with issues that arched over the boundaries of multiple programs. She was also part of the team that evaluated all proposals received in response to any Broad Agency Announcements (BAAs) that were issued by the Office of Land Quality. During this time Ms. Black also developed and directed the Abandoned Tank Community Assistance Program (ATCAP). This program merged aspects of the UST, LUST and Brownfield Programs together to provide state assistance to communities where there had been properties identified that were abandoned and tax delinquent and also contained underground storage tanks. This program hired consultants to remove the tanks, perform a tank closure assessment and provide a written final report of closure therefore allowing the community to either use the property for their own use or to get it back on the tax rolls through redevelopment by a private investor. In addition, Ms Black was also responsible over the last several years for negotiating and/or defending appeals made to the ELTF program due either to denial of entrance to the fund or due to items that were denied for payment.

- **QEPI**

Ms. Black is now serving as the Government Contracts Manager for QEPI. Her vast experience in working with the state and federal regulatory programs will be a valuable asset in this position. Having received, reviewed and evaluated many proposals and contracts while working for the government, she provides a unique perspective to what our proposals should provide and how best to format them to present our information in a clear and concise way.

- Sullivan Award Ballot Voting Member – 1997 – Current Award is to annually select the USA's Most Outstanding Amateur Athlete
- North Central Lady Panthers Booster Club
Founder and Charter President –1994 –1998
- NCAA Big Ten Women's Basketball Championship
Vice Chair Rally Committee for 2004 and an annual event volunteer
- FIBA World Basketball Championship 2003
Volunteer responsible for operating practice gyms for visiting worldwide teams
- Central Indiana Chapter Executive Women's Golf Association
2006 Events Director



Professional Profile

JEREMIAH H. ARMITAGE, LPG

Project Manager

IT Manager

Academic History:

- Rensselaer Polytechnic Institute
MS Geology
- Ball State University
BS Geology
- Rose-Hulman Institute of Technology

Registrations & Licenses:

- Indiana Licensed Professional Geologist #2164
- Federal Emergency Management Agency (FEMA)
IS-00100 Certified
- Federal Emergency Management Agency (FEMA) IS-00200 Certified
- Federal Emergency Management Agency (FEMA) IS-00301 Certified

Presentations/Publications:

Seismic Waves Generate by Aircraft Impacts and Building Collapse at World Trade Center, New York City; Won-Young Kim, L.R. Sykes, J.H. Armitage, J.K. Xie, K. H. Jacob, P. G. Richards, M. West, F. Waldhauser, J. Armbruster, L. Seeber, W.X. Du and A. Lerner-Lam; *Eos Transactions, American Geophysical Union*, Vol. 82, No. 47, pages 565, 570-571, November 20, 2001.

Receiver Function Analysis of Broadband Seismograms in Toba Caldera, Sumatra; Jeremiah Armitage; Masters Thesis; Rensselaer Polytechnic Institute, Summer 2000.

Receiver Function Analysis of Broadband Seismograms in Toba Caldera, Sumatra; Jeremiah Armitage, Steve Roecker, Masturyano, Rob McCaffrey, Dave Wark, John Nablek; American Geophysical Union Fall 1999 Meeting Presentation

Professional Experience

Mr. Armitage has had experience working with the Indiana Geologic Survey. While working with the I.G.S., he performed shallow subsurface seismic refraction and gamma logging. Mr. Armitage has evaluated seismic, gravity and electrical data for subsurface interpretation of geologic structures. Following completion of his Master's Degree, Mr. Armitage became the manager of Columbia University's real-time seismic network.



Professional Profile

JEREMIAH H. ARMITAGE, LPG
Project Manager
IT Manager

Since his employment at QEPI, Mr. Armitage has participated in and managed remedial investigations of subsurface soil and groundwater. As a Project Geologist and Hydrogeologist, Mr. Armitage has completed field mapping activities, multi-media sampling, subsurface investigation, soil logging, monitoring well installation, chemical injections, and data interpretation. In addition, Mr. Armitage has experience with AutoCad, ESRI, and Surfer mapping software preparing groundwater flow maps, geologic cross-sections, and other visual representations of data for analysis and final reports.

Currently, Mr. Armitage is managing several sites which include as part of the remediation: plume stability analysis, chemical injection, natural attenuation analysis, and risk assessments. Mr. Armitage has worked on sites in various programs including VRP, RCRA, and State Clean Up. In May 2005, Mr. Armitage attained a Professional Geologist's License in Indiana and is currently awaiting approval of applications for Licensure in Florida and Kentucky.

Mr. Armitage is also currently the manager of QEPI's IT staff, and oversees the day to day operation of the company's computer network and technological development.

- **Indianapolis Airport Authority** **Indianapolis, IN**

Mr. Armitage oversaw the excavation and construction of a 6,000 cubic yard bio-cell, as well as an 18,000 cubic yard excavation. Mr. Armitage has managed Electromagnetic Field Surveys and a Multi-Interface Probe survey to further delineate the site. Mr. Armitage also prepared Tier II Risk assessment for the site.

- **Target Corporation** **Indianapolis, IN**

Mr. Armitage oversaw excavation and injection activities. Mr. Armitage managed site closure under IDEM's Voluntary Remediation Program for the majority of the site. A separate portion of the site is currently being evaluated with plume stability analysis to achieve closure.

- **City of Indianapolis** **Indianapolis, IN**

Mr. Armitage oversaw excavation activities and quarterly groundwater sampling.

- **Inergy, LLC** **Ohio & Indiana**

Mr. Armitage oversaw excavation activities and collected quarterly groundwater sampling for sites in Ohio and Indiana.



Professional Profile

JEREMIAH H. ARMITAGE, LPG
Project Manager
IT Manager

- **Shell Oil Products** **Lebanon, IN**

Mr. Armitage has completed waste disposal characterization activities.

- **Retail Petroleum Client** **Kingman and Kentland, IN**

Mr. Armitage has completed soil and groundwater samples, installation of groundwater monitoring wells, well development and gauging activities, site surveying and the preparation of all site maps.



Professional Profile

BERNARD A. LAUCTES, PE
Director of Engineering

Academic History:

- New Mexico Institute of Mining and Technology
B.S., Geological Engineering
- Graduate Courses in Chemical &
Physical Wastewater Engineering, Hydraulics, &
Hydrology
- OSHA 40-Hour Hazardous Waste Training
8-Hour Supervisor Training



Registrations:

- Indiana Professional Engineer # 19800061
- New Mexico Professional Engineer # 12327
- Illinois Professional Engineer #0062-052217
- Pennsylvania Professional Engineer #PE-055487-E
- Federal Emergency Management Agency (FEMA) certified

Professional Affiliations:

- National Society of Professional Engineers
- Indiana Society of Professional Engineers
- National Ground Water Association

Presentations/Publications:

Lauctes, B.A., "Remediation at a Former RCRA Storage Pad Area," USEPA 2005 National Corrective Action Conference, Denver, CO, May 3-4, 2005.

Lauctes, B.A., "Remediation of MTBE in Ground Water Using an Off-Site Air Sparge Trench," NGWA Conference on MTBE and Perchlorate: Assessment, Remediation, and Public Policy, June 3-4, 2004, Costa Mesa, CA.

Lauctes, B.A., "Remediation at Industrial Sites," Indiana Manufacturers Association Symposium, November 21, 2002.

Reynolds, R.K., Lauctes, B.A., and Haines, J.D., "The Effect of Soil and Geology on Remedial Method Selection at Site Impacted by Chlorinated Volatile Organic Compounds," Geological Society of America, Interdisciplines Soils Symposium, March 2000.



Professional Profile

BERNARD A. LAUCTES, PE
Director of Engineering

- Reynolds, R.K., and Lauctes, B.A., "Proof of Natural Attenuation: Comparison of Evaluation Criteria," American Association of Petroleum Geologist, Annual Meeting, Indianapolis, Indiana, September 1999.
- Lauctes, B.A., and M.J. Darr, Instructors for Advanced Groundwater Flow and Solute Transport Short Course - January 5-10, 1996, Arizona Department of Environmental Quality, Phoenix, Arizona, Geoscience Consultants, Ltd., Albuquerque, New Mexico.
- M.J. Darr, J. Newsom, B.A. Lauctes, V. Terauds, July 1995. Instructors for Contaminant Hydrogeology Short Course, Geoscience Consultants, Ltd., Albuquerque, New Mexico.
- Lauctes, B.A., and M.J. Darr, Instructors for Advanced Groundwater Flow and Solute Transport Short Course - June 6-12, 1995, Washington Department of Environmental Quality, Seattle, Washington, Geoscience Consultants, Ltd., Albuquerque, New Mexico.
- Lauctes, B.A., A Controlled In-Situ Field Evaluation of a New "Dynamic" Vacuum Slug Test Method in Unconfined Aquifers, 1995. Poster Presentation, National Groundwater Association Conference, Indianapolis, Indiana.
- Landin, B.K., and B. A. Lauctes, The Use of Multi-Port Monitoring Wells for Aquifer Characterization and Plume Delineation in a Thick Alluvial Aquifer, 1995, Poster Presentation, National Groundwater Association Conference, Indianapolis, Indiana.
- Pietz, J.M., J.B. Case, B.A. Lauctes, and M.G. Wallace, 1989. Coupled Fluid Flow and Salt Creep Modeling, 1989. Waste Isolation Pilot Plant, Carlsbad, New Mexico.
- Lauctes, B.A., 1988. Well History for the Water Quality Sampling Program, DOE-WIPP 89-008, Waste Isolation Pilot Plant, Carlsbad, New Mexico.
- Deal, D.E., Abitz, R.J., Belski, D.S., Case, J.B., Crawley, M.E., Deshler, R.M., Drez, P.E., Givens, C.A., King, R.B., Lauctes, B.A., Myers, J., Niou, S., Pietz, J.M., Roggenthen, W.M., Tyburski, J.R., Wallace, M.G., 1989. Brine Sampling and Evaluation Program 1988 Report, DOE/WIPP 89-015, US DOE Waste Isolation Pilot Plant Project Office, Carlsbad, NM.
- Fuentes, H.R., W.L. Polzer, J. Gruber, B.A. Lauctes, and E.H. Essington, 1987. Preliminary Report on Sorption Modeling, LAUR 87-162, Los Alamos National Laboratories, Los Alamos, New Mexico.

Professional Experience:

Mr. Lauctes earned a B.S. in Geological Engineering and is a Professional Engineer with 19 years of experience in groundwater and soil remediation engineering,



Professional Profile

BERNARD A. LAUCTES, PE
Director of Engineering

underground storage tank management, contaminant hydrogeology, water resources and groundwater modeling. Project sites ranged from industrial to governmental facilities managed under state voluntary remediation programs or federal CERCLA (Superfund) and RCRA programs. During his 19 years of experience, Mr. Lauctes also gained technical expertise in saturated/unsaturated groundwater flow and solute transport modeling, remediation engineering, pilot-scale testing and evaluation, aquifer testing/analysis, site investigations/corrective actions/risk assessments, and soil metals remediation. Mr. Lauctes has conducted pilot test studies, evaluated results, and designed full-scale soil and groundwater remediation systems. Remedial technologies included high-vacuum dual-phase extraction, air sparging, vapor extraction, groundwater recovery, and natural attenuation. Systems were designed and installed in high permeability sand aquifers to low permeability glacial tills. Other tasks include system optimization, troubleshooting, and operation and maintenance.

RESEARCH and DEVELOPMENT

- **Oxygen Injection at Silty Clay Sites**

Mr. Lauctes is currently pilot testing oxygen injection in low-permeability silty clay sites impacted with hydrocarbons. A Matrix Oxygen trailer is being used at two sites. Pilot test results have shown increased oxygen concentrations up to 15 feet away from permanent injection points. Oxygen levels are observed at up to 20 times background levels in observation points. The advantage of this approach is that the system is simple, inexpensive, and required minimal O&M. It is also another tool for remediating difficult silty clay sites.

- **Anaerobic Dechlorination**

Mr. Lauctes is currently evaluating the use of food-grade molasses at two sites with chlorinated solvent plumes. One site is sandy and the other is low-permeability silty clay. Data shows that dechlorination is occurring through VC and ethene. Additional testing will be done using a mixture of molasses and oil to evaluate its use in source areas. This method should provide both short and long term carbohydrate supplies for anaerobic dechlorination. In addition, QEPI is working with a patent attorney to evaluate existing patents and possibly prepare a patent non-infringement letter for this method.

- **Soil Fracturing**

Mr. Lauctes is currently developing field equipment to be used to fracture silty clay soils to increase mass removal on SVE/MPE sites. Early tests were conducted within open boreholes. Future tests will include installing permanent fracturing



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points within the remediation zone to allow multiple fracturing events.

- **Vacuum Slug Testing**

Mr. Lauctes developed a new method to conduct slug tests in monitoring wells installed in a deep water table aquifer. The approach uses a conventional SVE blower to cause upwelling within the screened zone. The rise and fall of the water table is used to calculate hydraulic conductivity using conventional analytical solutions. The results were compared to conventional slug testing using a solid slug lowered into the well. There was no statistically significant difference. This method eliminates the need to use a winch to lower a conventional solid slug into deep water tables (100+ feet), saves time, and eliminates decontamination of equipment.

MULTIMEDIA ASSESSMENTS & REMEDIATION

- **Major Oil Company** **Indiana**

Remediation Engineer for a hydrogen peroxide injection pilot study at a former gasoline retail station.

- **Industrial Client** **Indiana**

Conducted a hydrogen peroxide injection pilot study to treat VOCs in groundwater.

- **Major Oil Company** **Indiana**

Remediation Engineer to research, design, install, and operate a 160-foot long, air sparging cut-off trench for MTBE in groundwater.

- **Major Oil Company** **Indiana**

Directing biosparging project to remediate petroleum hydrocarbons in groundwater using direct injection of high levels of dissolved oxygen.

- **Shell Oil Products Company** **Indianapolis, IN**

Project Engineer for the operation and maintenance of a high-vacuum dual-phase extraction system designed to treat petroleum-impacted groundwater and soil. System components include a vacuum pump, oil-water separator, air stripper, and catalytic oxidation off-gas treatment.



Professional Profile

BERNARD A. LAUCTES, PE
Director of Engineering

- **BICC Cables** Marion, IN

Remediation Engineer for an air sparging and soil vapor extraction remediation system at an industrial location. Both soil and ground water are impacted with chlorinated solvents. Pilot testing, engineering design, and start-up/operation of a soil vapor extraction system are completed. Site was successfully remediated within two years of operation.

- **SJC, Inc.** Indiana & Illinois

Senior Engineer for numerous sites impacted with petroleum hydrocarbons in soil and groundwater. Projects are in various stages of investigation, risk-based corrective action pilot testing, remediation system design, and operation and maintenance.

- **Rockwell International Corporation** Logansport, IN

Remediation Engineer for operation and maintenance of a pilot test system using high-vacuum extraction technology to remove mineral oil (quench oil) from below an active industrial manufacturing plant. The pilot test system included a single 100-foot long horizontal high-vacuum extraction well, oil-water separator, and aqueous carbon filter. Designed the full-scale remediation system based on pilot test results, which included five 100-foot long horizontal high-vacuum extraction wells extending beneath a building.

- **Westinghouse Electric Company** Union City, IN

Project Engineer for operation and maintenance of a full-scale high-vacuum dual-phase extraction system at a CERCLA site, a former industrial manufacturing facility. The system was designed to simultaneously remediate xylene-impacted soil and groundwater. The system included a high-vacuum pump, filtration system, and vapor/aqueous carbon filters. Groundwater xylene concentrations were reduced by over one order-of-magnitude during the first six months of operation.

- **Brookside Group, Inc.** McCordsville, IN

Remediation Engineer for pilot-scale test and subsequent operation and maintenance of pilot-scale system under extended operation in the source area. Designed a full-scale remediation system based on pilot test results to remediate chlorinated solvents from groundwater/soil at the former industrial manufacturing facility. The full-scale system included over 40 extraction wells, a high-vacuum pump, and aqueous carbon filters. The project operated under the Indiana



Professional Profile

BERNARD A. LAUCTES, PE
Director of Engineering

Voluntary Remediation Program. Based on pilot test results, the system was shut down and anaerobic dechlorination was initiated.

- **City of Indianapolis** **Indianapolis, IN**

Demonstrated that natural attenuation was a viable remedial alternative at a municipal wastewater treatment facility using groundwater geochemical data and computer modeling. A comprehensive natural attenuation evaluation was completed using site hydrogeologic data and the concentrations of dissolved oxygen, iron, nitrate, sulfate and other geochemical parameters.

- **Sun Oil Company** **Various Sites in Indiana & Kentucky**

Project Engineer for operation and maintenance of six full-scale remediation systems designed to remediate petroleum hydrocarbon-impacted groundwater. Remediation technologies included high-vacuum dual-phase extraction, pump-and-treat, air sparge/vapor extraction, and natural attenuation.

- **Marathon Oil Company** **Muncie, IN**

Project Engineer for a full-scale groundwater/soil remediation system using a combination of high-vacuum extraction and air sparging remedial technologies.

- **Amoco Petroleum, Inc.** **Ogilville, IN**

Project Construction Engineer for relocation of a groundwater pump-and-treat remediation system due to site construction activities.

- **Exxon Corporation** **New Mexico**

Project Manager for several UST sites undergoing active remediation using vacuum-enhanced pumping and vapor extraction. Prepared quarterly progress reports, Corrective Action Plans, and Operation & Maintenance Manuals for remediation systems.

- **Shell Oil Corporation** **Indiana**

Account Manager for over 100 retail petroleum terminal, and pipeline sites throughout Indiana, each under various stages of investigation, remediation, and closure. Mr. Lauctes has completed site assessment workplans, pilot-scale study workplans, remedial investigations/feasibility studies, and risk assessments.



Professional Profile

BERNARD A. LAUCTES, PE
Director of Engineering

- **General Electric Aircraft Engine Company** **Albuquerque, NM**

Team member of a large-scale site investigation and remedial action at the state's highest priority CERCLA site where chlorinated solvents impacted a major municipal drinking water aquifer. Decades of industrial manufacturing by several PRPs contributed to the groundwater impacts. Task leader for plume delineation, aquifer testing and analysis, and flow and transport modeling efforts. Specific elements included aquifer slug and pump testing and analysis, additional PRP identification, technical review, cost allocation to PRPs, and soil/groundwater remedial designs.

- **General Electric Aircraft Engine Company** **Ontario, California**

Conducted an unsaturated zone computer modeling study to determine appropriate soil cleanup goals for chlorinated solvents released from an aircraft engine test cell facility. Developed new graphical methods to delineate co-mingled plumes of chlorinated solvents in groundwater.

- **Various State Environmental Regulatory Agencies** **Arizona & Washington**

As co-instructor, he taught a 40-hour short course to state regulators on the use of MODFLOW and MT3D from a practical standpoint.

PERMITTING, REPORTING & ENGINEERING

As a Professional Engineer, Mr. Lauctes has prepared Spill Prevention Control & Countermeasures (SPCC) Plans for petroleum and industrial clients. He also prepares Storm Water Pollution Prevention (SWPP) Plans. Mr. Lauctes has direct experience in groundwater flow and contaminant transport modeling, aquifer testing and analysis, municipal water supply issues, and remedial engineering. Ms. Lauctes has taught modeling courses, and has presented many papers on groundwater modeling, water resources, and groundwater remediation.

- **Shell Oil Company** **Indiana**

Prepared SPCC Plans for retail facilities in Indiana.

- **Public Service Company of New Mexico** **Albuquerque, NM**
Water Supply Well Testing & Evaluation

Mr. Lauctes was the aquifer test analyst for a pump test at a Santa Fe, New Mexico water supply well impacted with chlorinated solvents. The 6-day, 455



Professional Profile

BERNARD A. LAUCTES, PE
Director of Engineering

gallon per minute pump test was analyzed using drawdown data collected from over 30 observation wells completed throughout a complex sequence of dipping beds.

- **National Aerospace Administration (NASA)** **Las Cruces, NM**
Pump Testing & Water Supply Well Siting

Assisted in the planning, implementation, and analysis of a 400 gallon per minute aquifer test in support of a remedial alternative evaluation at a RCRA facility in New Mexico. Also, assisted in the development of a regional, basin-wide numerical groundwater flow model using MODFLOW and PATH3D for water resource evaluations related to the siting of a new facility water supply well at the facility.

- **General Electric Aircraft Engine Company** **Albuquerque, NM**
Groundwater Supply Remediation

Senior Technical Reviewer for a large aquifer test conducted in a municipal well field. The 7-day, 350 gallon per minute test was conducted to evaluate a pump and treat recovery system to remediate the city of Albuquerque San Jose well field that was contaminated with chlorinated solvents.

- **Jefferson Smurfit Corporation** **Lafayette, IN**

Updated Spill Prevention Control & Countermeasures (SPCC) for a paper mill.

- **Moongate Water Supply Company** **Moongate, NM**
Water Resource Management

Assisted in evaluating potential impacts to a small community water supply well field due to future pumping projections of a nearby large municipal well field.

- **Various Clients** **California, NM**
Groundwater Remediation

Completed over 20 pumping well capture zone delineation's using analytical computer models (RESSQ, WHPA, TWODAN, DREAM) to evaluate the feasibility of groundwater pump and treat remediation systems. Pumping capacities ranged up to approximately 700 gallons per minute.



Professional Profile

BERNARD A. LAUCTES, PE
Director of Engineering

- **Girl Scouts of America** Chaparral, NM
Water Supply Well Evaluation & Siting

Evaluated an existing water supply well for a mountain camp facility due to reported reduced capacity. Project included well rehabilitation (acid treatment), and siting of a new supply well in fractured bedrock.

- **Bass Enterprises Production Company** Texas

Prepared several SPCC Plans for oil company tank batteries at production wells.

- **General Electric Aircraft Engine Company** New Mexico

Conducted facility inspections and prepared updated SPCC Plan for major manufacturing facility with over 15 separate storage/handling locations of petroleum/chemical products/wastes.

- **U.S. Army** Louisiana

Prepared a SWPP plan for a soil washing demonstration program at the Fort Polk Army training base.

- **Confidential Client** Indiana

Project Manager for a wastewater characterization study at a large manufacturing facility. Project elements include plant survey, process evaluation, and wastewater treatment assessment. The goal is to reduce effluent limits of zinc and copper to below allowable discharge limits.

- **Diamond Shamrock Petroleum** Indiana

Mr. Lauctes integrated off-gas vapors from a remediation system with the facility flare operations.

- **Navajo Refining Company** Indiana

Mr. Lauctes integrated a process waste stream from a remediation system into the refinery wastewater treatment system.

- **NASA** Indiana

Mr. Lauctes provided final approval for hazardous waste storage tank rehabilitation project.



Professional Profile

BERNARD A. LAUCTES, PE
Director of Engineering

- **Eagle Creek Aviation Services, Inc.**

Certified SPCC Plan for a municipal reliever airport.

- **Plastech**

Certified SPCC Plan for manufacturing plant that was incorporated into the Facility Response Plan.

- **Grain Processing Corporation**

Certified SPCC Plan for corn processing plant.

- **Louisianan-Pacific Corporation**

Certified SPCC Plan for plastics manufacturing plant.

- **Kroger Foods**

Prepared SPCC Plan for food processing plant.

FEDERAL CONTRACT EXPERIENCE

Mr. Lauctes has experience with Federal contracts in the areas of hazardous waste disposal site assessments and basic research into groundwater flow and contaminant transport.

- **Los Alamos National Laboratory (LANL), Los Alamos, New Mexico**

As Research Assistant at LANL, Mr. Lauctes assisted in studies of soil erosion, surface runoff/infiltration, and radionuclide transport in arid environments. Field studies were completed at both LANL and at Yucca Mountain, Nevada Test Site.

Conducted unsaturated soil column studies to estimate solute transport in volcanic tuff occurring at LANL. Performed sample radionuclide analyses of cesium and other tracers, data management, and computer modeling.

Analyzed contaminant sorption data from groundwater at the Yucca Mountain, Nevada Test Site using four isotherm sorption models. Wrote the Fortran computer model SOSOCO, a numerical computer code to statistically model sorption processes.



Professional Profile

BERNARD A. LAUCTES, PE
Director of Engineering

Completed computer simulation studies for unsaturated contaminant transport in laboratory soil columns using CFITIM (Van Genuchten Model).

- **U.S. DOE, Waste Isolation Pilot Plant Project, Carlsbad, New Mexico**

As project engineer for a consulting company in New Mexico, Mr. Lauctes worked on the WIPP Brine Sampling Program and performed statistical analyses on moisture content data from repository-level cores to investigate brine flow mechanisms at the WIPP site.

For the WIPP No-Migration Petition, assisted in the development of a coupled finite element brine flow and salt creep model (VISCONT & SUTRA) to study the fundamental mechanics of brine flow through deforming salt toward mined-out rooms at the WIPP site.

Created a database to manage large amounts of environmental data collected from the monitoring well program at the WIPP site.

Performed risk assessment for hypothetical contaminant release from the WIPP site and assisted in developing a source term model for accidental releases.

- **U.S. DOE, Yucca Mountain Project, Nevada Test Site**

As project engineer for a consulting company in New Mexico, Mr. Lauctes developed analytical computer model to analyze airflow out of the proposed high-level nuclear waste disposal repository at Yucca Mountain. The influence of shaft seal design, backfill, and modified permeability zone around the openings was evaluated.

Develop BSEVAP, a bare soil evaporation computer model to assess the two stages of bare soil drying and completed flood stage calculations for the Yucca Mountain project.

Completed numerical and analytical unsaturated contaminant transport modeling using SURTA and VADOSE for a radioactive/mixed-waste management unit located at the Nevada Test Site in support of a RCRA Part B Groundwater Monitoring Waiver.



Professional Profile

DOUGLAS J. RIGGS, EIT
Project Engineer

Academic Background:

- Purdue University, West Lafayette, IN
BS Agricultural and Biological Engineering
Specialty in Environmental and Natural Resources
Engineering

Registrations & Licenses:

- Engineer-in-Training, Indiana #ET30303167
- Indiana Water Well Drilling License #2072
- Federal Emergency Management Agency (FEMA)
IS-00100 Certified
- Federal Emergency Management Agency (FEMA) IS-00200 Certified
- Federal Emergency Management Agency (FEMA) IS-00301 Certified

Professional Experience:

Mr. Riggs assists QEPI with projects involving soil and groundwater investigation and remediation as a Project Engineer. Mr. Riggs currently manages eight petroleum remediation sites. He has experience in the management, operation, and design of petroleum hydrocarbon and chlorinated solvent remediation utilizing dual phase extraction (DPE) systems, air-sparge and soil vapor extraction (AS/SVE) systems, oxygen-enriched air biosparging, multi-phase batch extraction (MPBE), source removal through excavation, underground storage tank (UST) removal, in-situ reduction using HRC® and molasses solution, and in-situ oxidation using ORC®, Fenton reagents, and hydrogen peroxide injection. Before employment at QEPI, Mr. Riggs worked on two EPA projects dealing with environmental quality for the Agricultural and Biological Engineering department at Purdue University. The most recent project Mr. Riggs was involved with, the "Black Creek Project", evaluated the long-term effects of Better Management Practices (BMPs) on soil and water quality. On the other EPA project, Mr. Riggs helped to set new standards for pollution emissions from enclosed farming operations by collecting samples, calibrating machines, and modeling in AutoCAD.



Professional Profile

DOUGLAS J. RIGGS, EIT
Project Engineer

PERMITTING, REPORTING & ENGINEERING

- **SJC Inc., G&G Oil Corp., Flagship Capital, SOPUS** **Indiana**

Mr. Riggs has experience in project management for LUST and RISC investigation and remediation sites. He also has experience in remediation system design, implementation, maintenance, and air and water discharge permitting. Mr. Riggs has written reports for QEPI including Phase II investigations, further site investigations, and quarterly updates. Mr. Riggs has also written Remediation Work Plans that discuss the proposed remediation design and procedure for various sites.

MULTIMEDIA ASSESSMENTS & REMEDIATION

- **SJC Inc., G&G Oil Corp., Flagship Capital, SOPUS** **Indiana**

Mr. Riggs has performed fieldwork at many current and former industrial sites and petroleum retail stations, including monitoring and extraction well installation, remediation system operations and maintenance, remediation pilot testing, surveying, monitoring and extraction well development, slug testing, and soil and water investigation.



Professional Profile

BRENT A. DAYHARSH, LPG
Sr. Project Manager

Academic Background:

- Texas A & M University, College Station, TX
BS in Geophysics
50 hours graduate credit in Geophysics
- Western Michigan University, Kalamazoo, MI
40 hours graduate credit in Hydrogeology

Registrations & Licenses:

- Indiana Licensed Professional Geologist #Pending

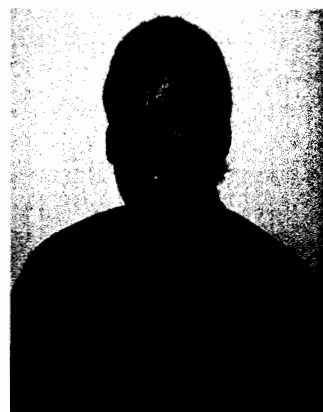
Specialized Training/Conferences:

- Midwestern States Risk Assessment Symposium August, 2004
- State Fund Administrators Conference June, 2003
- HAZWOPER 40 Hour Training/8 Hour Updates Dec. 2000, Jan. 2002, Feb. 2003, Dec. 2003, Dec. 2004
- EPA Remediation Technologies Training November, 2002
- Brownfields National Conference Sept. 2001, Nov. 2002
- RISC Symposium July, 2002
- RTM Communications – Contaminated Property Transactions April, 2001
- EPA Air Monitoring for Hazardous Materials Jan. 2001
- National Groundwater Assoc. – Outdoor Action Conference May 1995, May 1996
- National Groundwater Association Conference October 1995
- Hydrogeology Field Camp – Western Michigan University July – Aug. 1993

Presentations/Publications:

Environmental Issues Conference “Environmental Liability Trust Funds: IDEM’s new policies on reimbursement claims”, February 24, 2004

Kehew, A.E. Passero, R.N., Krishnamurthy, R.V., Lovett, C.K., Betts, M.A., and Dayharsh, B.A. Hydrogeochemical interaction between a wetland and an unconfined glacial drift aquifer, southwestern Michigan: Ground Water V. 36, no. 5, 849-856, 1998.





Professional Profile

BRENT A. DAYHARSH, LPG
Sr. Project Manager

Expert Witness/Affidavit

Northtrust II Limited Partnership v Travelers Property Casualty Ins. Co., et al., 2005. Mr. Dayharsh authored an affidavit and an expert opinion letter in this case involving chlorinated solvent contamination at a former dry cleaning facility.

Professional Experience

Mr. Dayharsh is currently a senior project manager directing environmental cleanups at more than 25 petroleum retail and bulk storage facilities. The projects employ a wide variety of remediation technologies including dual-phase extraction, air-sparging, soil vapor extraction, biosparging, oxygen-enriched biosparging, groundwater pump and treat, soil excavation and MNA. Mr. Dayharsh has successfully authored several Corrective Action Plan (CAP) Addendums to accelerate the progress of cleanups at sites while providing significant cost savings over the pre-existing remediation strategy. Previously, Mr. Dayharsh was a project manager for QEPI for more than 60 Leaking Underground Storage Tank (LUST) sites belonging to a major oil company. Under his guidance more than 10 of the sites were brought to No Further Action (NFA) closure status within a year's time.

Mr. Dayharsh is also managing a RCRA site for QEPI. The area of concern at the site is a former storage pad impacted by chlorinated solvents. Mr. Dayharsh has written a Closure Plan for soil and groundwater that was approved by RCRA. The site is now in closure monitoring and is on track to receive final closure status by year-end. In addition, Mr. Dayharsh is currently providing expert witness support for litigation involving tetrachloroethylene (PCE) contamination at a former dry cleaning establishment. His support in the case involves review of Voluntary Remediation Program (VRP) technical documents and expert opinion on the proposed remediation technologies and associated costs. In addition to his expert witness work involving the VRP, he has also provided technical reviews to VRP project managers on multiple sites.

Mr. Dayharsh has statutory and regulatory knowledge of the Indiana Department of Environmental Management (IDEM) VRP and the Excess Liability Trust Fund (ELTF) as he worked as a VRP Project Manager and the ELTF Program Director for IDEM. In his capacity as Project Manager of IDEM VRP projects he has provided oversight for many sites entered into the Voluntary Remediation Program including 8 sites which have received Covenants Not to Sue. In addition to his statutory and regulatory knowledge he has over 2 years of graduate experience at Western Michigan University completing hydrology evaluations on agriculturally impacted wetlands.



Professional Profile

BRENT A. DAYHARSH, LPG
Sr. Project Manager

- **Indiana Dept. of Environmental Management** **Indiana**
Sr. Environmental Manager, Excess Liability Trust Fund Indiana

Mr. Dayharsh coordinated operations and developed policy for the Indiana Excess Liability Trust Fund. Proofread more than 300 claims per month prior to approval for payment. Approved technical determinations of staff on site investigations, Corrective Action Plans, and No Further Action requests. Served on Rules Committee working on revision of Title 328 IAC1. Prepared monthly reports showing the revenue, expenditures and current balance of the Fund. Presented quarterly reports to the Fund Financial Assurance Board and led discussion of the current Fund status along with any significant trends in claim volume or Fund revenue. Supervised activities of 15 employees contracted to perform claim cost reviews as well as technical reviews of documents.

- **Environmental Manager, Voluntary Remediation Program** **Indiana**
Indiana Dept. of Environmental Management

Mr. Dayharsh provided management and oversight to more than 40 Voluntary Remediation Program sites. Reviewed technical documents, coordinated site investigations and provided guidance. Split soil and groundwater samples with project consultants. Made decisions on closure eligibility for sites including approval of Remediation Work Plan and Remediation Completion Report. Authored cleanup summaries for Certificate of Completion and Covenant Not to Sue. Developed a database of institutional/engineering controls in effect on completed sites. Organized photo & site summary database of completed VRP projects for IDEM web site. Participated in developing VRP policy. Attended the VRP meetings regarding implementation of RISC. Conducted tests of RISC Non-default Calculator. Extensive usage of IDEM ULCERS database.

- **Western Michigan University** **Michigan**

Mr. Dayharsh conducted research on an agriculturally impacted wetland near Vandalia, Michigan. Installed and developed monitoring wells. Conducted periodic samplings of the wells and wetland surface water. Analyzed surface water and ground water samples for contaminants and ions of interest using field and laboratory water quality analysis techniques. Obtained excellent constraints on wetland/groundwater flow patterns using analytical chemistry data in conjunction with oxygen isotope data. Performed the isotope extraction and analysis using WMU's Stable Isotope Lab. It was determined that impacted groundwater was flowing into the wetland at the north end. The wetland was removing the agricultural contaminants through filtering and denitrification (due to the highly



Professional Profile

BRENT A. DAYHARSH, LPG
Sr. Project Manager

reducing conditions in the wetland and the underlying decomposing plant material). Relatively clean water was then flowing out of the wetland back into the groundwater at the southern end.



ENVision Laboratories, Inc.
1439 Sadlier Circle West Drive
Indianapolis, IN 46239
Tel: 317.351.8632
Fax: 317.351.8639
www.envisionlaboratories.com

Price Quotation

Date: 11/1/2006
Client Name: QEPI
Contact Name: Anne Detjen Black
Project Name: PRGI

<u>Parameter</u>	<u>Matrix</u>	<u>Unit Cost</u>
BTEX/MTBE+n-		
Hexane+cPAH+Naphthalene	soil or water	\$ 100.00
VPH+EPH	soil or water	\$ 350.00
BTEX/MTBE	soil or water	\$ 30.00
TPH-GRO	soil or water	\$ 20.00
TPH-ERO	soil or water	\$ 35.00
TPH-GRO+ERO	soil or water	\$ 50.00
8RCRA Metals	soil or water	\$ 60.00
UST Metals	soil or water	\$ 60.00
Individual metals	soil or water	\$ 8.00
PAH or cPAH	soil or water	\$ 70.00
VOC	soil or water	\$ 65.00
SVOC	soil or water	\$ 130.00
PCB	soil or water	\$ 65.00
%Moisture	soil	\$ -
TCLP-Lead	soil	\$ 60.00
TCLP-Benzene	soil	\$ 95.00
TCLP-VOC	soil	\$ 125.00
TCLP-SVOC	soil	\$ 165.00
TCLP-RCRA 8 METALS	soil	\$ 90.00
TCLP-VOC+SVOC+Metals	soil	\$ 375.00
Paint Filter	soil	\$ 10.00
Corrosivity	soil	\$ 10.00
Flashpoint	soil	\$ 25.00
TerraCore Samplers		\$ 1.75
Tared Vials		\$ 0.85

24hr TAT= 100% surcharge
48hr TAT= 50% surcharge

Level 3 = 10% surcharge
Level 4 = 15% surcharge

All Prices include:

Standard 7-business day TAT
Sample Containers, Labels, Preservatives, Coolers
Chain-of-Custody Forms
Level II QA/QC Documentation
Reports in Hard Copy and Electronic Format
Free Pick-up or Shipping via Overnight Courier

Quote Prepared by:

David Norris
Client Services Manager
ENVision Laboratories, Inc.

Your Projects. Our Passion.



Quotation

Quote ID: **2016-000010-01-00-001**

Project ID: **PMH 0000**

Client: **John Smith
1001 N. Washington Road
Indianapolis, IN 46208**

Report To: **Project Manager**

Start Date: **7/1/17**

Phone: **317-875-5894**
Fax: **317-872-6189**

TAT: **30 Business Days**

Report Level: **Level II**

Parameter	Method	Matrix	Unit Price	Level IV Data Package Unit Price
TPH GRO	8015/5035	Soil/Groundwater	\$ 35.00	\$ 40.25
TPH ERO	8015	Soil/Groundwater	\$ 40.00	\$ 46.00
BTEX/MTBE	8021/5035	Soil/Groundwater	\$ 35.00	\$ 40.25
cPAHs (included Naphthalene)	8270 SIM	Soil/Groundwater	\$ 85.00	\$ 97.75
UST Metals (total and Dissolved)	6000/7000 Series	Soil/Groundwater	\$ 60.00	\$ 69.00
PCBs	8082	Soil/Groundwater	\$ 65.00	\$ 74.75
VOCs	8260/5035	Soil/Groundwater	\$ 85.00	\$ 97.75
Flash Point	9095	Soil	\$ 15.00	\$ 17.25
TCLP Lead	1311/6010	Soil	\$ 55.00	\$ 63.25
TCLP Benzene	1311/8260	Soil	\$ 120.00	\$ 138.00
Paint Filter	9095	Soil	\$ 15.00	\$ 17.25
Percent Moisture	ASTM	Soil	\$ 5.00	\$ 5.75
Terracore Kit	5035		\$ 12.00	\$ 13.80

Pace Analytical Services, Inc. standard payment terms are due upon receipt of invoice.

Special Instructions:

Metals list includes Barium, Cadmium, Chromium (total), Lead, Mercury, Nickel and Zinc. The client will be charged \$25.00 to have their samples filtered in the laboratory instead of the field for the dissolved metals analysis. Terracore kits/analysis will be provided upon request from client.

Laboratory

Pace Analytical Services, Inc.
7726 Moller Rd.
Indianapolis, IN 46268
Phone: 317-875-5894
Fax: 317-872-6189

Prepared By:
Title:
Extension:





Fiscal Year 2006—Municipal, Government; State & Federal Hourly Rates

Professional hourly rates, which include in-town travel expenses, in-house reproductions, overhead and profit, are based on the following classifications:

	<u>Per Hour</u>
Managing Principal.....	\$124
Executive Technical Director.....	\$114
Senior Toxicologist.....	\$112
Certified Industrial Hygienist.....	\$109
Project Director	\$105
Senior Project Manager	\$94
Project Manager II	\$82
Project Manager I	\$75
Project Engineer/Geologist/Scientist II	\$60
Project Engineer/Geologist/Scientist I	\$56
Staff Engineer/Geologist/Scientist II	\$52
Staff Engineer/Geologist/Scientist I	\$49
Master Technician	\$45
Draftsman.....	\$41
Executive Administrative Assistant.....	\$34
Technician I.....	\$34
Administrative.....	\$30

Reimbursable Expenses

Proposals or Agreements normally specify certain out-of-pocket expenses are reimbursable. The following are in addition to Contract Amount, and are to be reimbursed as follows:

Automobile travel.....	the greatest of \$55/Day or 0.40/Mile
Airfare, meals, lodging & car rental	Cost + 10%
Major printing & reproductions by outside service.....	Cost + 10%
Special deliveries	Cost + 10%

Notes

- Charges made by outside consultants/contractors/laboratories (previously approved by client) are billed at actual invoices + 10%.
- This fee schedule shall apply for work performed during the fiscal year 2006.
- Work conducted in Level A, B & C will be negotiated.
- Double hourly rates for Expert Witness, Deposition, and Court Time.



ELF Equipment Rental & Expendable Supply Charges

Page 1 of 2

Job Name _____
 Site Location _____
 Field Personnel _____

Job # & Task # _____
 Week Ending _____
 Date _____

Rental Equipment	Per Day		Total
	Units	Cost	
2" Submersible Pump & Controller		\$115.00	
2-Way Radio & Holsters		\$10.00	
2" & 4" PVC Bailer		\$15.00	
Acreage Reader Template		\$2.00	
Airhorn		\$2.00	
Amp Probe		\$10.00	
Camcorder		\$40.00	
Development Pump		\$30.00	
Dissolved Oxygen Kit		\$40.00	
Dissolved Oxygen Meter		\$30.00	
Drill		\$25.00	
Drum Repair Kit		\$30.00	
Electrical Multimeter		\$25.00	
Guides		\$3.00	
Hand Auger		\$35.00	
Hand Tools		\$5.00	
LEL Meter		\$50.00	
Magnetometer/Metal Detector		\$35.00	
Misc. Sampling		\$5.00	
Multiparameter Water Quality Meter (YSI)		\$50.00	
O&M Tools		\$10.00	
Oil/Water Interface Probe		\$12.00	
Oil/Water Interface Probe* (when free product present)		\$55.00	
ORP (Oxidation/Reduction Meter - REDOX)		\$35.00	
pH Meter		\$20.00	
pH/Temp./Conductivity Meter		\$20.00	
Pilot Test Vacuum Gauges		\$35.00	
Post Hole Digger		\$10.00	
Power Auger		\$50.00	
Pressure Transducer		\$300.00	
Reciprocating Saw		\$35.00	
SCBAs		\$150.00	
Slug Test Datalogger/Transducer		\$100.00	
Soil Gas Survey Equipment		\$200.00	
Sump Pump		\$15.00	
Surge Block		\$10.00	
Survey Equipment		\$75.00	
Survey Map Wheel		\$10.00	
SVE Pilot Module		\$250.00	
Tank Stick		\$5.00	
Utility Probe		\$5.00	
Velocity Meter		\$35.00	
Water Flow Meter		\$75.00	
Water Level Meter		\$12.00	
Water Quality Meter		\$90.00	
QEPI System Trailers	Per Week		
		\$1,800.00	
	Per Month		
		\$3,000.00	
Sub Total (Page 1) of Rental Equipment			\$0.00
Total of Both Page 1 & Page 2			\$0.00



ELF Equipment Rental & Expendable Supply Charges

Page 1 of 2

Job Name _____
 Site Location _____
 Field Personnel _____

Job # & Task # _____
 Week Ending _____
 Date _____

Rental Equipment	Per Day		Total
	Units	Cost	
2" Submersible Pump & Controller		\$115.00	
2-Way Radio & Holsters		\$10.00	
2" & 4" PVC Bailer		\$15.00	
Acreage Reader Template		\$2.00	
Airhorn		\$2.00	
Amp Probe		\$10.00	
Camcorder		\$40.00	
Development Pump		\$30.00	
Dissolved Oxygen Kit		\$40.00	
Dissolved Oxygen Meter		\$30.00	
Drill		\$25.00	
Drum Repair Kit		\$30.00	
Electrical Multimeter		\$25.00	
Guides		\$3.00	
Hand Auger		\$35.00	
Hand Tools		\$5.00	
LEL Meter		\$50.00	
Magnetometer/Metal Detector		\$35.00	
Misc. Sampling		\$5.00	
Multiparameter Water Quality Meter (YSI)		\$50.00	
O&M Tools		\$10.00	
Oil/Water Interface Probe		\$12.00	
Oil/Water Interface Probe* (when free product present)		\$55.00	
ORP (Oxidation/Reduction Meter - REDOX)		\$35.00	
pH Meter		\$20.00	
pH/Temp./Conductivity Meter		\$20.00	
Pilot Test Vacuum Gauges		\$35.00	
Post Hole Digger		\$10.00	
Power Auger		\$50.00	
Pressure Transducer		\$300.00	
Reciprocating Saw		\$35.00	
SCBAs		\$150.00	
Slug Test Datalogger/Transducer		\$100.00	
Soil Gas Survey Equipment		\$200.00	
Sump Pump		\$15.00	
Surge Block		\$10.00	
Survey Equipment		\$75.00	
Survey Map Wheel		\$10.00	
SVE Pilot Module		\$250.00	
Tank Stick		\$5.00	
Utility Probe		\$5.00	
Velocity Meter		\$35.00	
Water Flow Meter		\$75.00	
Water Level Meter		\$12.00	
Water Quality Meter		\$90.00	
QEPI System Trailers	Per Week		
		\$1,800.00	
	Per Month		
		\$3,000.00	
Sub Total (Page 1) of Rental Equipment			\$0.00
Total of Both Page 1 & Page 2			\$0.00



Client: SJC, Inc.
Project: Former Lafayette Bulk Plant
Client Contact: Stanley J. Clark
Service Date: 2004 through Present
Services Provided: Site Investigation, Soil and Groundwater Remediation, VRP Program
Contract Amount: \$970,000

The former Bulk Plant is located on a $\frac{3}{4}$ acre lot in Lafayette. Previous investigations had shown a majority of the site was impacted by petroleum hydrocarbons. Free product was also present. QEPI was awarded the site by bid after another consulting firm bid \$1.5 million for the investigation and cleanup versus QEPI's bid of \$970,000.



The facility entered into the Indiana Department of Environmental Management's (IDEM) Voluntary Remediation Program (VRP) in 2004 to address the chemicals of concern (COCs) related to historic operations at this site. The COCs include benzene, toluene, ethylbenzene, xylene and methyl-tertiary-butyl ether (BTEX/MTBE) and semi-volatile organics (SVOCs).

QEPI formulated a remediation strategy based on limited existing site investigation data. QEPI collected additional data to refine the limits of the proposed excavation and based on this was able to negotiate extremely low competitive bids from excavators and nearby landfills based on the volume of soil to be removed. QEPI completed the excavation of 6,800 tons of soil in May of 2004. QEPI has completed soil confirmation sampling and has initiated groundwater closure sampling. QEPI collected site-specific geotechnical data and was able to gain approval of the VRP Remediation Work Plan (RWP). The RWP proposed RISC non-default residential clean-up goals using the site-specific data. Because of this, QEPI will achieve soil closure without requiring an environmental restrictive covenant on the property. The required quarters of groundwater monitoring will be completed in August of 2006 and the site will receive a Covenant Not to Sue from the VRP. This site clean-up will be completed for more than 40% less than QEPI's original bid amount. Costs to date: \$450,000. Expected remaining cost to closure: \$100,000.



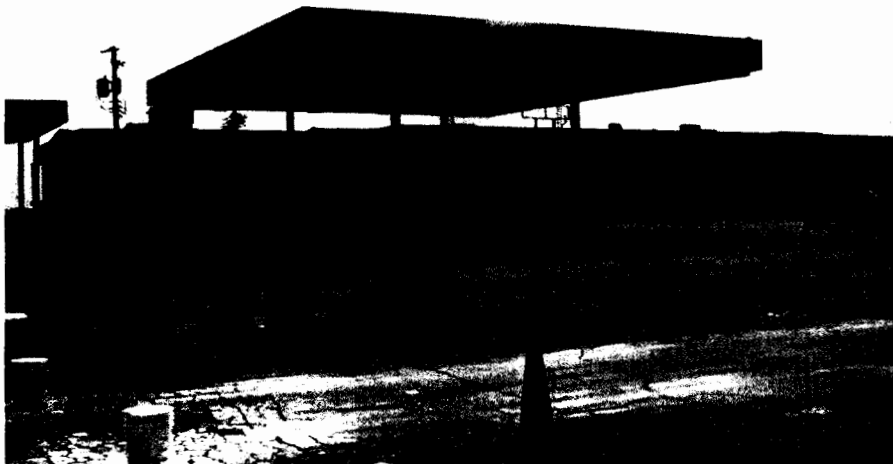
Project Profile

Client: SJC, Inc.
Auto-Truck Plaza
Oakwood, Illinois

Service Date: 2004 to Present

Contact: Stanley J. Clark

Services Provided: Site Investigation, Investigation Report, CAP,
ORC Injection, Quarterly and Closure
Monitoring



QEPI completed site delineation and received CAP approval from the IEPA to implement ORC injections as a remediation approach for site closure. The estimated cost to closure is approximately \$240,000.

The site has had historical BTEX/MTBE groundwater

impacts above cleanup goals in several monitoring wells. QEPI provided oversight for the installation of 324 ORC injection points in July 2005. Approximately 9,100 pounds of ORC was mixed with water to form slurry and injected over a 3 week period. QEPI slightly altered the original grid pattern in order to avoid utility and product lines and to provide better coverage in the area of a monitoring well that had been showing increasing impacts.

QEPI will implement closure monitoring beginning 2 months following the completion of remediation activities. Site groundwater will be monitored for 2 to 4 quarters in order to demonstrate that groundwater concentrations are stable and meet the closure goals. Since IEPA RBCA Tier 2 Industrial site closure goals are used, an Environmental Land Use Control agreement will be executed.



Client:	Confidential - Major Retail
Site Location:	Nora Plaza Mall Indianapolis, Indiana
Service Date:	June 2002 through Present
Services Provided:	Phase II Investigation Asbestos Inspection and Abatement Oversight Soil and Groundwater Remediation
Contract Type:	Firm Fixed Price
Contract Amount:	\$500,000

For the last 40 years, the Nora Plaza Mall has served as an integral part of the retail shopping area for the highly populated area on the north side of Indianapolis, Indiana. The major anchor store for the mall purchased the 32-acre mall parcel for the purpose of redeveloping and upgrading the mall to current retail standards. This large undertaking included demolition of four buildings including the anchor store with little or no disturbance to the retail operations.

The first environmental task of the project included "due diligence" or identifying any potential environmental concerns associated with the property. This included the review of environmental reports and site drawings that had accumulated over the years. **Quality Environmental Professionals, Inc. (QEPI)** identified potential concerns including: former use of heating oil underground storage tanks (UST) throughout the site, three automobile maintenance facilities, former waste water treatment plant, former use of one outlot as a gasoline retail station and one operating gasoline UST. **QEPI** also conducted an expansive asbestos-containing materials building inspection on 40 operating retail units consisting of over 300,000 square feet. The entire mall property has been entered into the Indiana Voluntary Remediation Program and **QEPI** will continue to provide environmental assistance on bringing this property to closure and obtaining a "Covenant Not to Sue" from the Indiana Governor's Office through the Indiana Department of Environmental Management.

QEPI's ongoing responsibilities include providing remediation expertise to some areas on the property, UST removal oversight and asbestos abatement oversight. The schedule for completion of the project and the opening of the new anchor store is June 2004.

QEPI Personnel involved in the project and their responsibilities:

- **Thomas E. O'Leary, CHMM**—Project Director-Responsible for general project direction, communication with the client and adherence to regulatory requirements.
- **Bernard A. Lauctes, PE**—Remediation Director-Responsible for evaluating remediation alternatives and negotiations with regulatory agencies.
- **Jeremiah H. Armitage**—Project Manager, responsible for site management and field investigation and site remedial activities.



Project Profile

Client:	Confidential Client New Castle, IN
Service Date:	2002 to Present
Services Provided:	Phase I/II Site Investigations; Site Characterizations; Corrective Action Plans; Engineering Design for Remediation;
Contract Amount	\$400,000

QEPI investigated a portion of an industrial facility that had been used as a retail gasoline station. Petroleum hydrocarbon impacts were found in soil and water at the site above industrial cleanup goals. The site remedy included source soil removal and chemical oxidation. Soil was removed in heavily impacted areas of the site. Chemical oxidation using Fenton's reagent/sodium persulfate was then used



to remediate saturated soils and water. Additional soil removal is planned prior to closure monitoring under the Indiana Voluntary Remediation Program.

QEPI has completed the following types of work at the site:

- Phase I/II site investigation for petroleum hydrocarbons
- Soil removal
- In-Situ Chemical Oxidation

QEPI Personnel involved in the project and their responsibilities:

- **Bernard Lauctes** – Director of Engineering - Responsible for project direction, engineering design, client communication and health & safety.
- **Support Staff** – Geologists and engineers manage the field activities for the Project Manager. Duties include site investigation and reporting.



Project Profile

Client: Central 13 Redevelopment Corporation
Indianapolis, Indiana

Project: Former Metro Taxi Company
Indianapolis, Indiana

Client Contact: Kurt Pantzer

Service Date: September 2002 through Present

Services Provided: Phase II Investigation
UST Removal and Disposal Oversight

Contract Type: Cost Reimbursement

Contract Amount: \$36,000

QEPI was contracted to provide oversight services for the removal and disposal of six underground storage tanks (USTs), two hydraulic lift tanks and to conduct a Phase II Investigation to determine if impacts to the environment were present due to historic operations at the property.

The site had previously been used as a vehicle maintenance facility for various companies dating back to the early 1910s. The petroleum hydrocarbon chemicals of concern (COC) include gasoline, diesel fuel, lubricating oil and solvents.



The purpose of these activities was to prepare the site for future redevelopment. QEPI was able to determine risks associated with the environmental concerns at the property and to provide recommendations to address those risks and proceed with redevelopment.

QEPI Personnel involved in the project and their responsibilities:

- **Karla K. McDonald** — Project Director-Responsible for general project direction, communication with the client and adherence to regulatory requirements.
- **Thomas E. O'Leary** — Senior Project Manager-Responsible for leading field activities, project communication with the Project Director, client, subcontractors and regulatory agencies. Also responsible for field data collection quality control.



Client: BICC
Wire Manufacturer in Indiana

Client Contact: Robert Morgan

Service Date: 1998 to Present

Services Provided: Phase II Site Investigations—Underground Storage Tank Removals—Site Characterizations—Corrective Action Plans—Engineering Design for Remediation Systems—Operation & Maintenance for Remediation Systems—Litigation Support—Expert Witness

Contract Type: Fee Schedule

Contract Amount: \$1,300,000

QEPI investigated a former RCRA hazardous waste storage pad for chlorinated solvents in soil and water. Impacts delineated in soil and water were remediated using soil vapor extraction (SVE) and air sparging (AS).

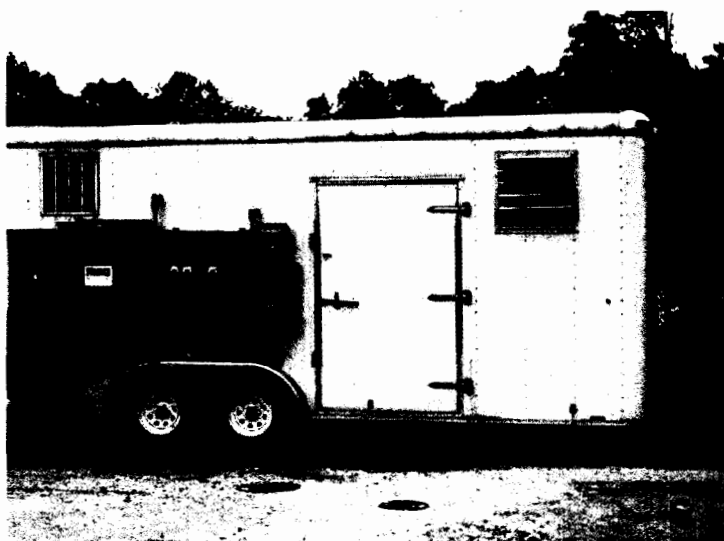
The engineering pilot testing and design was complicated by the geology. The soils consisted of three individual units each requiring pilot testing and a remediation system design tailored to each unit.

QEPI has completed the following types of work at the site:

- Phase II site investigation for chlorinated solvents (PCE, TCE)
- SVE field-scale pilot testing of each soil unit
- Engineering design, SVE/AS system installation, start-up, operation & maintenance.
- Calculated site-specific soil cleanup goals
- The SVE/AS system operated for ~ 2 years and was shut-down; closure sampling results indicate the targeted areas were remediated to cleanup goals

QEPI Personnel involved in the project and their responsibilities:

- **Bernard Lauctes, Director of Engineering** — Responsible for project direction, engineering design, client communication and health & safety.
- **Support Staff, Geologists & Engineers** — Manage the field activities for the Project Manager. Duties include site investigation and reporting.





Project Profile

Client:	SEEUSA, LLC
Project:	Stanley J. Clark (SJC) retail gasoline stations Retail gasoline stations in Indiana and Illinois
Client Contact:	Stanley J. Clark, 765-492-3345
Service Date:	September 1997 to Present
Services Provided:	Phase I & II Property Transfer Investigations Underground Storage Tank Removals Initial Site Characterizations Corrective Action Plans Operation and Maintenance of Remedial Systems Waste Product Removal and Disposal
Contract Type:	State Reimbursement Programs (IN & IL)
Contract Amount:	\$700,000/year

The SEEUSA, LLC project was a joint venture formed in 1997 between Shell Oil Products Company and Stanley J. Clark, a regional retail distributor. The retail sites included 17 northwestern Indiana and 5 eastern Illinois retail gasoline distribution stations. Three additional sites included former bulk fuel terminals in Indiana.

In the initial phase of the joint venture, **Quality Environmental Professionals, Inc. (QEPI)** conducted Phase I & II property transfer investigations to determine the presence/absence of petroleum hydrocarbon impacts resulting from retail gasoline/diesel distribution operations. QEPI then completed Initial Site Characterization (ISC) investigations submitting soil and groundwater samples for analysis of the applicable Underground Storage Tank (UST) program laboratory parameters including total petroleum hydrocarbons (TPH), volatile organic compounds (VOCs) including benzene, toluene, ethylbenzene, xylenes and methyl tertiary butyl ether (BTEX/MTBE), semi-volatile organic compounds (SVOCs), and metals.

Following state agency approval of the ISCs, Corrective Action Plans (CAP) were developed including Risk-based options. Remedial systems including multi-phase and air sparge/soil vapor extraction were designed and implemented at appropriate sites.

QEPI Personnel involved in the project and their responsibilities:

- **Brent A. Dayharsh**—Project Director—Responsible for general project direction, remedial system design and implementation, communication with the client and adherence to regulatory requirements.
- **Thomas E. O'Leary**—Senior Project Manager—Responsible for leading field activities, project communication with the Senior Project Engineer, subcontractors and regulatory agencies. Also responsible for field data collection quality control.
- **Joshua S. Randall**—Project Manager—Responsible for State Reimbursement Program applications, reimbursement tracking and adherence to the programs.



Client: Stanley J. Clark, Inc.
Indianapolis Airport Authority
Shell Oil Products, US

Service Date: November 1997 to Present

Services Provided: Preparation of Reimbursement Packages for
Submittal to Indiana
Department of Environmental Management &
Illinois Environmental Protection Agency for
Leaking Underground Storage Tank Sites

Quality Environmental Professionals, Inc. (QEPI) was contracted by Stanley J. Clark, Inc. (SJC, Inc.), Shell Oil Products, US (Shell), and Indianapolis Airport Authority (IAA) to complete reimbursement packages for submittal to Indiana's Excess Liability Trust Fund (ELTF) Program for costs associated with site characterization and remediation of sites with leaking underground storage tanks (USTs). Additionally, QEPI was contracted by SJC, Inc. to prepare reimbursement packages for submittal to the Illinois Environmental Protection Agency (IEPA) for site characterization and remediation cost associated with leaking USTs sites.

QEPI has completed over 600 hundred ELTF reimbursement claims for approximately 40 Shell and SJC, Inc. sites. QEPI had submitted approximately \$3,483,982.00, which has resulted in reimbursement of approximately \$3,419,069.00. Over 98% of costs submitted have been reimbursed to QEPI's clients. Furthermore, when QEPI conducts all site investigation and remediation activities, the percent of costs reimbursed increases to approximately 99.7%. Additionally, QEPI has been responsible for getting approximately \$354,108.00 of costs reimbursed to the Indianapolis Airport Authority for site investigation and remediation costs.

QEPI actively attends Financial Assurance Board (FAB) meetings and participates in workgroups formed to discuss proposed ELTF rule changes.

STANLEY J. CLARK, INC.



March 8, 2005

To whom it may Concern

SJC, Inc. has contracted QEPI as their environmental/engineering professionals since 1997. My portfolio encompasses more than 20 retail and bulk storage facilities located in Indiana and Illinois. The total amount of the portfolio at one point encompassed over 6.5 million in site investigations and remediation. Of that amount, QEPI has been able to save SJC, Inc. over 2 million dollars in cost due to their technical approach. At SJC Inc. five terminal projects QEPI presented a risk-based cleanup approach and provided our insurance providers a performance based contract of \$970,000 for our Lafayette Terminal property. The site was entered into the Indiana Voluntary Remediation Program (VRP) where QEPI successfully negotiated the risk-based cleanup and the site is being completed well under budget at a cost of approximately \$600,000. The other consultant's performance based contract amount was \$5.1 million.

Our experience with QEPI and their employees have been extremely positive. QEPI has demonstrated a great deal of technical expertise and has implemented a variety of innovative and cost effective approaches to use on site cleanups.

QEPI has been able to receive several regulatory closures on SJC, Inc. sites in Illinois and Indiana and has multiple sites nearing closure at the present time. SJC, Inc. has employed other environmental consulting firms in the past and those firms were unable to match QEPI's quality and success in achieving site closures. QEPI enjoys a positive working relationship with regulators and is able to avoid potential regulatory problems and get my sites to closure faster than any other firm that I have worked with.

I have a great relationship with the QEPI team and I would highly recommend QEPI based on our 8 year professional relationship. Please contact me if you wish to speak with me personally regarding QEPI and their qualifications.

Sincerely,

Stanley J. Clark

President
SJC, Inc.

P.O. BOX 534 • CAYUGA, IN 47928 • 765-492-3345 • FAX NO. 765-492-3411
IN INDIANA: 1-800-382-0976 • OUT OF STATE 1-800-382-0977



May 19, 2006

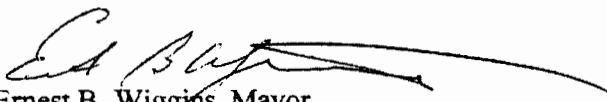
To Whom It May Concern:

I have been Mayor of the City of Warsaw since 1997. Over the years, the City has worked with QEPI on several projects.

One major project was the former Gatke property on the east side of town. QEPI was able to get both State funding and HUD grants to assist with this undertaking. The Gatke project included site investigation, asbestos inspection, and hazardous waste removal. In addition, QEPI provided oversight of the asbestos removal and also construction management oversight for demolition of three-fourths of the buildings on site.

QEPI has done a great job over the years for the City of Warsaw, and we will continue to use QEPI for any future projects requiring environmental engineering services.

Very truly yours,


Ernest B. Wiggins, Mayor
City of Warsaw

P.O. Box 953, Warsaw, IN 46581-0953
www.warsawcity.net

Phone: 574-372-9595
Fax: 574-372-9596



CITY OF MISHAWAKA

JEFFREY L. REA, MAYOR

OFFICE OF THE MAYOR

May 23, 2006

Re: Letter of Recommendation for QEPI

To Whom It May Concern:

It is both a privilege and an honor to write this letter of recommendation to you on behalf of Quality Environmental Professionals, Inc. (QEPI). I send you my personal highest regard for Deb Peters and the staff at QEPI and want you to know that without a doubt the City of Mishawaka will turn to them again for their expertise when we are in need of environmental consultation.

Beginning in 1998 and through 2002, as Economic Director for the City of Mishawaka, I worked closely with Deb and the QEPI staff on one of Indiana's largest brownfield sites, an abandoned factory in Mishawaka owned by the Uniroyal Corporation that included over 2 million square feet of floor space. The team from QEPI was an invaluable partner with this large cleanup and helped us move this brownfield from an environmental "nightmare" to one of the most beautiful public spaces in all of Indiana. I found there staff to be professional, easy to work with, and to be problem solvers. Best of all, we felt like they always delivered the information we needed on time and on budget.

If you have any further questions about our project or our working relationship with QEPI, please feel free to call me at my office (574) 258-1601.

Sincerely,

Jeff Rea, Mayor

BICCables

BICC Cables Corporation

Robert L. Morgan
Director of Environmental Management

390 Key West Street
Moneta, VA 24121
Tel Office (540) 721-5258
Fax (540) 721-1037
Rlmorgansml@aol.com

May 3, 2005

To Whom It May Concern:

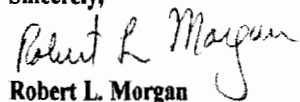
BICC Cables Corporation has engaged Quality Environmental Professionals, Inc. (QEPI) for the last eight years to remediate and close a site contaminated by solvents previously stored on a TSD storage pad. The working relationships with QEPI and the results of their remediation have been especially successful. The RCRA pad is close to clean closure.

Early in the period of remediation the state environmental agency called a meeting to require that, in addition to cleaning up the solvent contamination associated with the RCRA pad, BICC investigate, and, if necessary, remediate the site where it was suspected that landfill activities by a former owner had resulted in lead contamination of the soil. QEPI in the persons of Deborah Peters and Bernard Lauctes completed a risk assessment by evaluating drinking water receptors, wellhead protection areas and the nearby river flowing around the facility. The USEPA soil-to-groundwater leaching model was used to predict the ability of lead to leach to the ground water. An ecological assessment was conducted using wildlife, including insects, fish, turtles, etc., to determine the impact of site ground water migrating to the river. Human receptors eating fish from the river were included in the model as well. A toxicologist joined the study and concluded that lead in conjunction with the chlorinated solvents from the RCRA pad has a detoxifying effect on human target organs. The risk assessment was convincing to the regulatory agency and the agency agreed to defer investigation of the lead and uncouple investigation of the lead in soil from investigation of the solvent contamination arising from the RCRA pad.

Since that time QEPI has added substantially to their capability to include risk assessments to support their remediation projects. Tony Havics, PE, CHMM, CIH, recently joined a partnership with Deborah Peters. Tony is on the ASTM committee that developed the risk assessment practices for general industry and regulators alike. Tony and Deborah were on the *ad hoc* Risk Assessment Committee that helped develop Risk Assessment procedures for use in Indiana. Other staff members have been added to QEPI who previously were on risk assessment assignments for state environmental regulatory agencies. QEPI has recently conducted Risk Assessments in neighboring Midwestern states.

I have no hesitation in recommending QEPI to investigate and remediate industrial sites, especially facilities where Risk Assessments could play a role in determining the standards for closure.

Sincerely,


Robert L. Morgan

SCHMIDT



ASSOCIATES

March 1, 2005

To Whom It May Concern:

I have had the pleasure of working with Deborah Peters and QEPI for several years, and would like to express my high regards for her and her environmental company. Both her performance and the service we have received have been exemplary, to say the least.

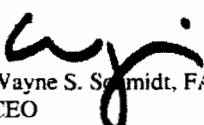
QEPI is regarded highly by our clients, including the State of Indiana Department of Administration, where, as a member of our team, Deborah's firm completed a Phase I Environmental Site Assessment, infrastructure analysis and asbestos inspection for the Muscatatuck State Developmental Center Master Plan. The project schedule was extremely tight with a modest budget, and QEPI was able to complete their work ahead of schedule and under budget, while retaining the same level of quality they provide to all of their clients.

QEPI is committed to professional excellence, and has a unique level of environmental experience that only comes through years of successful practice with a foundation of great clients. I highly recommend her and QEPI for environmental services. If you should need a verbal reference, please contact me at any time at 263-6226.

Sincerely,

SCHMIDT ASSOCIATES, INC.

Architecture • Engineering • Interior Design • Landscape Architecture


Wayne S. Schmidt, FAIA
CEO
wschmidt@schmidt-arch.com

WSS:lja

Copy: File

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Steven L. Schaecker, AIA, LEED
Kevin J. Schulte, PE
Steven R. Sturm, RA
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Engineering
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May 26, 2006

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Retired
WILLIAM J. REGAS

R. M. KROGER
(1912 - 2002)
JOHN E. GARDIS
(1908 - 2001)

To Whom It May Concern:

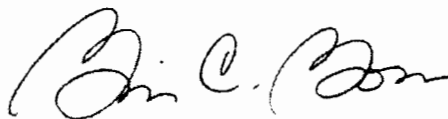
Quality Environmental Professionals, Inc. (QEPI) has been involved with environmental engineering projects for my law firm, Kroger, Gardis and Regas, for the last 9 years. In 1997, QEPI began working for one of my clients on retail petroleum and bulk oil sites in Indiana and Illinois. This client's portfolio of sites entailed full construction management, health and safety operations, investigation and remediation services as well as all permitting, reporting and waste disposal operations. In addition to the retail petroleum portfolio of sites, QEPI has assisted my firm with the completion of a Categorical Exclusion and Bat Mist Netting survey for the City of Carmel, Indiana. Additionally they have worked with my firm and our client, the City of Beech Grove, with a former landfill project that will be redeveloped into a community soccer field.

I have worked with QEPI in Due Diligence for property transactions, Expert Witness Support Services and Site Construction Management and Investigations and Remediation Services. QEPI continues to work with myself and members of my firm and we are currently working together for a large power generating utility located in Indiana. I am on the executive committee for Indiana's chapter of the National Brownfield Association where QEPI has 3 staff members that also serve on the committee.

Overall, I have found the professionals at QEPI to be technically astute while consistently coming in at or under budget and exceeding our firm's and our clients' expectations. If you would like to discuss their qualifications in person, I would be happy to do so.

Very truly yours,

KROGER, GARDIS & REGAS, LLP



Brian C. Bosma

BCB:akk

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EVAN BAYH
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(317) 554-0750

United States Senate

WASHINGTON, DC 20510-1404

May 30, 2006

COMMITTEES:
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SMALL BUSINESS
SPECIAL COMMITTEE ON AGING

Ms. Deborah E. Peters, LPG, Managing Principal and Chief Executive Officer
Quality Environmental Professionals, Inc.
1611 South Franklin Road
Indianapolis, Indiana 46239

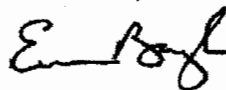
Dear Deb,

I am writing to thank you for hosting two of my Regional Directors, Doran Moreland and Hodge Patel at your headquarters in Indianapolis. You and your staff have done a wonderful job of educating my staff on the cutting edge work that QEPI performs on a daily basis across Indiana.

My staff has indicated to me that your firm has been invaluable in terms of providing guidance and assistance on topics of interest and germane to the needs of Hoosiers. I appreciate you maintaining a regular dialog with my office on various projects across the state, both public and private, including the "Kokomo Hum." QEPI has demonstrated a strong commitment to doing what is correct and prudent as an 8(a) designated small business. I am truly grateful for your interest in employing and retaining Indiana's best and brightest college graduates. Businesses like QEPI are diligently working to plug the "brain drain" our state is experiencing.

The professional range of services that QEPI provides is worthy of acknowledging and is appreciated. I strongly urge you to maintain this high standard. Keep up the outstanding work and please continue to utilize my office whenever I may be of assistance.

Best wishes,



Evan Bayh
United States Senator

RICHARD G. LUGAR

INDIANA

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WASHINGTON, DC 20510
202-224-4814

senator_lugar@lugar.senate.gov

COMMITTEE
FOREIGN RELATIONS, CHAIRMAN
AGRICULTURE, SCIENCE, AND FORESTRY

United States Senate

WASHINGTON, DC 20510-1401

May 19, 2006

Deborah E. Peters, LPG, Managing Principal and Chief Executive Officer
Quality Environmental Professionals, Inc.
1611 South Franklin Road
Indianapolis, Indiana 46239

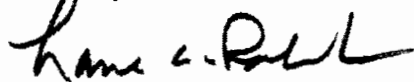
Dear Deb:

Thank you for your recent telephone call updating me on the ongoing success and growth your company is continuing to experience. QEPI has succeeded in no small measure due to the leadership qualities and commitment to excellence that you personally exhibit as a geologist, CEO and community leader.

I consider myself fortunate to know you and the work that your company can perform that is focused on the core issue a situation requires. Your assistance in Kokomo, Indiana with a very unusual environmental/public health issue was largely guided by a draft plan of work that your firm produced almost overnight. The array of expertise and experiences that members of your team have along with the keen understanding of the public interest, perception and anticipated consequences was invaluable to Senator Lugar and his staff on an issue where we frankly were quite perplexed. The great benefit of QEPI is that you can make a complex environmental situation understandable and can assist with establishing a path that can guide one to corrective measures.

I appreciate that QEPI is an Indiana company led by a woman who is a professional and a strong role model in a field that needs strong role models. My best wishes on your continued success and advancement of the high caliber services you provide. Please do not hesitate to call upon me if I can be of assistance.

Sincerely,



Lane A. Ralph
Deputy State Director

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